

# **RENEWABLE ENERGY STATISTICS 2024**

# **STATISTIQUES D'ÉNERGIE RENOUVELABLE 2024**

# **ESTADÍSTICAS DE ENERGÍA RENOVABLE 2024**

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For further information or to provide feedback, please contact the IRENA Statistics team ([statistics@irena.org](mailto:statistics@irena.org)).

This report is available for download from: [www.irena.org/Publications](http://www.irena.org/Publications). Data can be downloaded at: [www.irena.org/Data](http://www.irena.org/Data).

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|                  |     |
|------------------|-----|
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| Pays: A - F      |     |
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|                              |     |
|------------------------------|-----|
| Total renewable energy       |     |
| Total énergies renouvelables |     |
| Total energías renovables    | 260 |
| <br>                         |     |
| Hydropower                   |     |
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| Hidroeléctrica               | 264 |
| <br>                         |     |
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| Énergie éolienne             |     |
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## NOTES TO THE TABLES

The renewable power capacity data shown in these tables represents the maximum net generating capacity of power plants and other installations that use renewable energy sources to produce electricity. For most countries and technologies, the data reflects the capacity installed and connected at the end of the calendar year. Pumped storage is included in total capacity but excluded from total generation. The capacity data are presented in megawatts (MW) and the generation data are presented in gigawatt-hours (GWh). All the data are rounded to the nearest one MW/GWh, with figures between zero and 0.5 shown as a 0. In the balances, renewable electricity trade is calculated based on the share of renewables in total production. There are instances where there are no matching capacity/production values. This is due to several factors such as no electricity production for that period for that technology; and multiple fuel sources for power generation at certain facilities.

Data have been obtained from a variety of sources, including: the IRENA questionnaire; official statistics; industry association reports; and other reports and news articles. Numbers followed by the letter "o" are figures that have been obtained from official sources such as national statistical offices, government departments, regulators and power companies. The letter "u" follows figures that have been obtained from unofficial sources, such as industry associations and news articles. The letter "e" follows figures that have been estimated by IRENA from a variety of different data sources. All figures from the IRENA questionnaire are presented without any indicator.

The Public Renewable Energy Finance Flows shown in these tables present an overview of investment transactions for renewable energies from selected public financial institutions. The numbers are aggregated for each country and technology, based on the project level information. The data is presented in million United States Dollars (USD million) at current prices, rounded to the next 1 million, with figures between zero and USD 0.5 million shown as 0. The data have been obtained from a variety of publicly available sources.

Data are available for download at [www.irena.org/statistics](http://www.irena.org/statistics).

## NOTES À PROPOS DES TABLEAUX

Les données sur les capacités électriques renouvelables présentées dans ces tableaux représentent la capacité maximale nette de génération des centrales électriques et autres installations utilisant des sources d'énergie renouvelables pour produire de l'électricité. Pour la plupart des pays et technologies, les données reflètent la capacité installée et connectée à la fin de l'année civile. Accumulation par pompage est inclus dans la capacité totale, mais exclu de la production totale. Les données de capacité sont exprimées en megawatts (MW) et les données de production sont présentés dans gigawatt-heures (GWh). Toutes les données sont arrondis à l'unité la plus proche ; les valeurs inférieures à 0,5 apparaissent comme 0. Dans les bilans, les échanges d'électricité renouvelable est calculée sur la base de la part des énergies renouvelables dans la production totale. Il existe des situations où les valeurs de capacité électrique ne correspondent pas avec celles de la production. Cela s'explique par plusieurs facteurs, tels que l'absence de production électrique sur cette période et pour cette technologie, ainsi que l'utilisation de multiples sources de combustible pour la production de certaines installations.

Les données viennent de nombreuses sources incluant : le questionnaire IRENA ; les statistiques officielles ; des rapports d'associations de l'industrie ; et d'autres rapports et articles de presse. Les valeurs suivies de la lettre "o" ont été obtenues à partir de sources officielles (par exemple instituts statistiques nationaux, agences gouvernementales, régulateurs, compagnies d'électricité). La lettre "u" suit les valeurs venant de sources non officielles comme des rapports d'associations de l'industrie ou articles de journaux. La lettre "e" suit les valeurs qui ont été estimées par l'IRENA à partir de sources diverses. Toutes les données venant du questionnaire IRENA sont présentées sans indication.

Les données sur les flux financiers publics pour les énergies renouvelables présentées dans ces tableaux donnent une vue d'ensemble des transactions d'investissement pour les énergies renouvelables selon des institutions financières publiques sélectionnées. Les chiffres sont agrégés pour chaque pays et par technologie, sur la base de l'information disponible au niveau du projet. Les données sont exprimées en millions de dollars américains (USD millions) à prix courants, avec un arrondissement au million; les valeurs inférieures à 0.5 millions apparaissent comme 0. Les données ont été collectées selon des sources disponibles publiquement.

Les données sont téléchargeables sur le site [www.irena.org/statistics](http://www.irena.org/statistics).

## NOTAS A LAS TABLAS

Los datos de capacidad de generación eléctrica con energías renovables que se muestran en estas tablas representan la capacidad máxima de generación neta de las centrales eléctricas y otras instalaciones que utilizan fuentes de energías renovables para producir electricidad. Para la mayoría de los países y las tecnologías, los datos reflejan la capacidad instalada y conectada al final del año natural. Hidroeléctrica de bombeo pura se incluye en la capacidad total, pero excluidos de la generación total. Los datos de capacidad se presentan en megavatios (MW) y los datos de generación se presentan en gigavatios·hora (GWh). Todos los datos se redondean al MW/GWh entero más cercano, con cifras entre cero y 0.5 representadas como un 0. En los balances, el comercio de electricidad renovable se calcula en base a la proporción de energías renovables en la generación total. En ciertos casos, los valores de capacidad/producción no coinciden. Esto se debe a varios factores, como la falta de producción de electricidad durante ese período para dicha tecnología, y la existencia de múltiples fuentes de combustible para la generación de energía en determinadas instalaciones.

Los datos se han obtenido a partir de una variedad de fuentes, incluyendo: el cuestionario de IRENA; estadísticas oficiales; informes de las asociaciones industriales; y otros informes y artículos de noticias. Los números acompañados de la letra “o” son cifras que se han obtenido a partir de fuentes oficiales, como oficinas nacionales de estadística, departamentos gubernamentales, reguladores y compañías eléctricas. La letra “u” acompaña a cifras que se han obtenido a partir de fuentes no oficiales, tales como asociaciones industriales y artículos de noticias. La letra “e” acompaña a números que han sido estimados por IRENA a partir de diversas fuentes de datos. Todos los datos provenientes del cuestionario de IRENA se presentan sin ningún indicador.

Los datos de los flujos de financiación pública en energías renovables que se muestran en estas tablas presentan una visión general de las transacciones de inversión en energías renovables de las instituciones financieras públicas seleccionadas. Los datos están agregados por país y tecnología, y provienen de información a nivel de proyecto. Los datos se presentan en millones de dólares estadounidenses (USD millones) a precios corrientes, redondeado al millón entero más cercano, con cifras menores de 0.5 millones representadas como un 0. Los datos se han obtenido a partir de diversas fuentes públicas.

Los datos están disponibles para su descarga en [wwwIRENA.org/statistics](http://wwwIRENA.org/statistics).

# COUNTRIES, AREAS AND REGIONS SHOWN IN THE TABLES

## PAYS, ZONES ET RÉGIONS FIGURANT DANS LES TABLEAUX

## PAÍSES, ZONAS Y REGIONES MOSTRADAS EN LAS TABLAS

| Label/En-tête/Rótulo | English                                      | Français                                     | Español                                    |
|----------------------|--|--|--|
| WORLD                | WORLD  | MONDE  | MUNDO                                      |
| AFRICA               | AFRICA                                       | AFRIQUE                                      | ÁFRICA                                     |
| Algeria              | Algeria                                      | Algérie                                      | Argelia                                    |
| Angola               | Angola                                       | Angola                                       | Angola                                     |
| Benin                | Benin  | Bénin  | Benín                                      |
| Botswana             | Botswana                                     | Botswana                                     | Botsuana                                   |
| Burkina Faso         | Burkina Faso                                 | Burkina Faso                                 | Burkina Faso                               |
| Burundi              | Burundi                                      | Burundi                                      | Burundi                                    |
| Cabo Verde           | Cabo Verde                                   | Cabo Verde                                   | Cabo Verde                                 |
| Cameroon             | Cameroon                                     | Cameroon                                     | Camerún                                    |
| Cent Afr Rep         | Central African Republic                     | République centrafricaine                    | República Centroafricana                   |
| Chad                 | Chad   | Tchad  | Chad                                       |
| Comoros              | Comoros                                      | Comores                                      | Comoras                                    |
| Congo DR             | Democratic Republic of the Congo             | République démocratique du Congo             | República Democrática del Congo            |
| Congo Rep            | Congo  | Congo  | República del Congo                        |
| Cote d'Ivoire        | Côte d'Ivoire                                | Côte d'Ivoire                                | Côte d'Ivoire                              |
| Djibouti             | Djibouti                                     | Djibouti                                     | Djibouti                                   |
| Egypt                | Egypt  | Égypte                                       | Egipto                                     |
| Eq Guinea            | Equatorial Guinea                            | Guinée équatoriale                           | Guinea Ecuatorial                          |
| Eritrea              | Eritrea                                      | Érythrée                                     | Eritrea                                    |
| Eswatini             | Eswatini                                     | Eswatini                                     | Eswatini                                   |
| Ethiopia             | Ethiopia                                     | Éthiopie                                     | Etiopía                                    |
| Gabon                | Gabon  | Gabon  | Gabón                                      |
| Gambia               | Gambia                                       | Gambie                                       | Gambia                                     |
| Ghana                | Ghana  | Ghana  | Ghana                                      |
| Guinea               | Guinea                                       | Guinée                                       | Guinea                                     |
| Guinea Bissau        | Guinea-Bissau                                | Guinée-Bissau                                | Guinea-Bisáu                               |
| Kenya                | Kenya  | Kenya  | Kenia                                      |
| Lesotho              | Lesotho                                      | Lesotho                                      | Lesoto                                     |
| Liberia              | Liberia                                      | Libéria                                      | Liberia                                    |
| Libya                | Libya  | Libye  | Libia                                      |
| Madagascar           | Madagascar                                   | Madagascar                                   | Madagascar                                 |
| Malawi               | Malawi                                       | Malawi                                       | Malawi                                     |
| Mali                 | Mali   | Mali   | Malí                                       |
| Mauritania           | Mauritania                                   | Mauritanie                                   | Mauritania                                 |
| Mauritius            | Mauritius                                    | Maurice                                      | Mauricio                                   |
| Mayotte              | Mayotte                                      | Mayotte                                      | Mayotte                                    |
| Morocco              | Morocco                                      | Maroc  | Marruecos                                  |
| Mozambique           | Mozambique                                   | Mozambique                                   | Mozambique                                 |
| Namibia              | Namibia                                      | Namibie                                      | Namibia                                    |
| Niger                | Niger  | Niger  | Níger                                      |
| Nigeria              | Nigeria                                      | Nigéria                                      | Nigeria                                    |
| Reunion              | Réunion                                      | Réunion                                      | Reunión                                    |
| Rwanda               | Rwanda                                       | Rwanda                                       | Rwanda                                     |
| Saint Helena         | Saint Helena, Ascension and Tristan da Cunha | Sainte-Hélène, Ascension et Tristan da Cunha | Santa Helena, Ascensión y Tristán de Acuña |
| Sao Tome Prn         | Sao Tome and Principe                        | Sao Tomé-et-Principe                         | Santo Tomé y Príncipe                      |
| Senegal              | Senegal                                      | Sénégal                                      | Senegal                                    |
| Seychelles           | Seychelles                                   | Seychelles                                   | Seychelles                                 |
| Sierra Leone         | Sierra Leone                                 | Sierra Leone                                 | Sierra Leona                               |
| Somalia              | Somalia                                      | Somalie                                      | Somalia                                    |
| South Africa         | South Africa                                 | Afrique du Sud                               | Sudáfrica                                  |
| South Sudan          | South Sudan                                  | Soudan du Sud                                | Sudán del Sur                              |
| Sudan                | Sudan  | Soudan                                       | Sudán                                      |
| Tanzania             | United Republic of Tanzania                  | République-Unie de Tanzanie                  | República Unida de Tanzania                |
| Togo                 | Togo   | Togo   | Togo                                       |
| Tunisia              | Tunisia                                      | Tunisie                                      | Túnez                                      |
| Uganda               | Uganda                                       | Ouganda                                      | Uganda                                     |

| <b>Label/En-tête/Rótulo</b> | <b>English</b>                                 | <b>Français</b>                                    | <b>Español</b>                                     |
|-----------------------------|--|--|--|
| Westn Sahara                | Western Sahara                                 | Sahara occidental                                  | Sahara occidental                                  |
| Zambia                      | Zambia   | Zambie   | Zambia   |
| Zimbabwe                    | Zimbabwe                                       | Zimbabwe   | Zimbabue   |
| <b>ASIA</b>                 | <b>ASIA</b>                                    | <b>ASIE</b>  | <b>ASIA</b>  |
| Afghanistan                 | Afghanistan                                    | Afghanistan  | Afganistán   |
| Bangladesh                  | Bangladesh                                     | Bangladesh   | Bangladesh   |
| Bhutan                      | Bhutan   | Bhoutan  | Bután  |
| Brunei Darsm                | Brunei Darussalam                              | Brunéi Darussalam                                  | Brunei Darussalam                                  |
| Cambodia                    | Cambodia                                       | Cambodge   | Camboya  |
| China                       | China  | Chine  | China  |
| China HK SAR                | China, Hong Kong Special Administrative Region | Chine, région administrative spéciale de Hong Kong | China, región administrativa especial de Hong Kong |
| China Mac SAR               | China, Macao Special Administrative Region     | Chine, région administrative spéciale de Macao     | China, región administrativa especial de Macao     |
| Chinese Taipei              | Chinese Taipei                                 | Taipei chinois                                     | China Taipéi                                       |
| India                       | India  | Inde   | India  |
| Indonesia                   | Indonesia                                      | Indonésie  | Indonesia  |
| Japan                       | Japan  | Japon  | Japón  |
| Kazakhstan                  | Kazakhstan                                     | Kazakhstan   | Kazajstán  |
| Korea DPR                   | Democratic People's Republic of Korea          | République démocratique populaire de Corée         | República Popular Democrática de Corea             |
| Korea Rep                   | Republic of Korea                              | République de Corée                                | República de Corea                                 |
| Kyrgyzstan                  | Kyrgyzstan                                     | Kirghizistan                                       | Kirguistán   |
| Lao PDR                     | Lao People's Democratic Republic               | République démocratique populaire lao              | República Democrática Popular de Lao               |
| Malaysia                    | Malaysia                                       | Malaisie   | Malasia  |
| Maldives                    | Maldives                                       | Maldives   | Maldivas   |
| Mongolia                    | Mongolia                                       | Mongolie   | Mongolia   |
| Myanmar                     | Myanmar  | Myanmar  | Myanmar  |
| Nepal                       | Nepal  | Népal  | Nepal  |
| Pakistan                    | Pakistan                                       | Pakistan   | Pakistán   |
| Philippines                 | Philippines                                    | Philippines  | Filipinas  |
| Singapore                   | Singapore                                      | Singapour  | Singapur   |
| Sri Lanka                   | Sri Lanka                                      | Sri Lanka  | Sri Lanka  |
| Tajikistan                  | Tajikistan                                     | Tadjikistan  | Tayikistán   |
| Thailand                    | Thailand                                       | Thaïlande  | Tailandia  |
| Timor Leste                 | Timor-Leste                                    | Timor-Leste  | Timor-Leste  |
| Turkmenistan                | Turkmenistan                                   | Turkménistan                                       | Turkmenistán                                       |
| Uzbekistan                  | Uzbekistan                                     | Ouzbékistan  | Uzbekistán   |
| Viet Nam                    | Viet Nam                                       | Viet Nam   | Viet Nam   |
| <b>C AMERICA + CARIB</b>    | <b>CENTRAL AMERICA AND THE CARIBBEAN</b>       | <b>AMÉRIQUE CENTRALE ET CARAÏBES</b>               | <b>CENTROAMÉRICA Y EL CARIBE</b>                   |
| Anguilla                    | Anguilla                                       | Anguilla   | Anguila  |
| Antigua Barb                | Antigua and Barbuda                            | Antigua-et-Barbuda                                 | Antigua y Barbuda                                  |
| Aruba                       | Aruba  | Aruba  | Aruba  |
| Bahamas                     | Bahamas  | Bahamas  | Bahamas  |
| Barbados                    | Barbados                                       | Barbade  | Barbados   |
| Belize                      | Belize   | Belize   | Belice   |
| BES Islands                 | Bonaire, Sint Eustatius and Saba               | Bonaire, Saint-Eustache et Saba                    | Bonaire, San Eustaquio y Saba                      |
| Br Virgin Is                | British Virgin Islands                         | Îles Vierges britanniques                          | Islas Vírgenes Británicas                          |
| Cayman Is                   | Cayman Islands                                 | Îles Caïmanes                                      | Islas Caimán                                       |
| Costa Rica                  | Costa Rica                                     | Costa Rica   | Costa Rica   |
| Cuba                        | Cuba   | Cuba   | Cuba   |
| Curacao                     | Curacao  | Curaçao  | Curazao  |
| Dominica                    | Dominica                                       | Dominique  | Dominica   |
| Dominican Rep               | Dominican Republic                             | République dominicaine                             | República Dominicana                               |
| El Salvador                 | El Salvador                                    | El Salvador  | El Salvador  |
| Grenada                     | Grenada  | Grenade  | Granada  |
| Guadeloupe                  | Guadeloupe                                     | Guadeloupe   | Guadalupe  |
| Guatemala                   | Guatemala                                      | Guatemala  | Guatemala  |
| Guyana                      | Guyana   | Guyana   | Guyana   |
| Haiti                       | Haiti  | Haïti  | Haití  |

| <b>Label/En-tête/Rótulo</b> | <b>English</b>                   | <b>Français</b>                    | <b>Español</b>                 |
|-----------------------------|----------------------------------|------------------------------------|--------------------------------|
| Honduras                    | Honduras                         | Honduras                           | Honduras                       |
| Jamaica                     | Jamaica                          | Jamaïque                           | Jamaica                        |
| Martinique                  | Martinique                       | Martinique                         | Martinica                      |
| Nicaragua                   | Nicaragua                        | Nicaragua                          | Nicaragua                      |
| Panama                      | Panama                           | Panama                             | Panamá                         |
| Puerto Rico                 | Puerto Rico                      | Porto Rico                         | Puerto Rico                    |
| St Barth                    | Saint Barthélemy                 | Saint-Barthélemy                   | San Barthélemy                 |
| St Kitts Nevis              | Saint Kitts and Nevis            | Saint-Kitts-et-Nevis               | Saint Kitts y Nevis            |
| St Lucia                    | Saint Lucia                      | Sainte-Lucie                       | Santa Lucía                    |
| St Maarten                  | Sint Maarten (Dutch part)        | Saint Martin (partie néerlandaise) | San Martín (parte neerlandesa) |
| St Martin                   | Saint Martin (French Part)       | Saint Martin (partie française)    | San Martín (parte francesa)    |
| St Vincent Gren             | Saint Vincent and the Grenadines | Saint-Vincent-et-les Grenadines    | San Vicente y las Granadinas   |
| Trinidad Tobago             | Trinidad and Tobago              | Trinité-et-Tobago                  | Trinidad y Tabago              |
| Turks Caicos                | Turks and Caicos Islands         | Îles Turques et Caïques            | Islas Turcas y Caicos          |
| US Virgin Is                | United States Virgin Islands     | Îles Vierges américaines           | Islas Vírgenes Estadounidenses |
| <b>EURASIA</b>              | <b>EURASIA</b>                   | <b>EURASIE</b>                     | <b>EURASIA</b>                 |
| Armenia                     | Armenia                          | Arménie                            | Armenia                        |
| Azerbaijan                  | Azerbaijan                       | Azerbaïdjan                        | Azerbaiyán                     |
| Georgia                     | Georgia                          | Géorgie                            | Georgia                        |
| Russian Fed                 | Russian Federation               | Fédération de Russie               | Federación de Rusia            |
| Türkiye                     | Türkiye                          | Türkiye                            | Türkiye                        |
| <b>EUROPE</b>               | <b>EUROPE</b>                    | <b>EUROPE</b>                      | <b>EUROPA</b>                  |
| Albania                     | Albania                          | Albanie                            | Albania                        |
| Andorra                     | Andorra                          | Andorre                            | Andorra                        |
| Austria                     | Austria                          | Autriche                           | Austria                        |
| Belarus                     | Belarus                          | Bélarus                            | Belarús                        |
| Belgium                     | Belgium                          | Belgique                           | Bélgica                        |
| Bosnia Herzg                | Bosnia and Herzegovina           | Bosnie-Herzégovine                 | Bosnia-Herzegovina             |
| Bulgaria                    | Bulgaria                         | Bulgarie                           | Bulgaria                       |
| Croatia                     | Croatia                          | Croatie                            | Croacia                        |
| Cyprus                      | Cyprus                           | Chypre                             | Chipre                         |
| Czechia                     | Czechia                          | Tchéquie                           | Chequia                        |
| Denmark                     | Denmark                          | Danemark                           | Dinamarca                      |
| Estonia                     | Estonia                          | Estonie                            | Estonia                        |
| Faroe Islands               | Faroe Islands                    | Îles Féroé                         | Islas Feroe                    |
| Finland                     | Finland                          | Finlande                           | Finlandia                      |
| France                      | France                           | France                             | Francia                        |
| Germany                     | Germany                          | Allemagne                          | Alemania                       |
| Gibraltar                   | Gibraltar                        | Gibraltar                          | Gibraltar                      |
| Greece                      | Greece                           | Grèce                              | Grecia                         |
| Holy See                    | Holy See                         | Saint-Siège                        | Santa Sede                     |
| Hungary                     | Hungary                          | Hongrie                            | Hungría                        |
| Iceland                     | Iceland                          | Islande                            | Islandia                       |
| Ireland                     | Ireland                          | Irlande                            | Irlanda                        |
| Italy                       | Italy                            | Italie                             | Italia                         |
| Kosovo*                     | Kosovo*                          | Kosovo*                            | Kosovo*                        |
| Latvia                      | Latvia                           | Lettonie                           | Letonia                        |
| Liechtenstein               | Liechtenstein                    | Liechtenstein                      | Liechtenstein                  |
| Lithuania                   | Lithuania                        | Lituanie                           | Lituania                       |
| Luxembourg                  | Luxembourg                       | Luxembourg                         | Luxemburgo                     |
| Malta                       | Malta                            | Malte                              | Malta                          |
| Moldova Rep                 | Republic of Moldova              | République de Moldova              | República de Moldavia          |
| Monaco                      | Monaco                           | Monaco                             | Mónaco                         |
| Montenegro                  | Montenegro                       | Monténégro                         | Montenegro                     |
| Netherlands                 | Netherlands                      | Pays-Bas                           | Países Bajos                   |
| North Macedonia             | North Macedonia                  | Macédoine du Nord                  | Macedonia del Norte            |
| Norway                      | Norway                           | Norvège                            | Noruega                        |
| Poland                      | Poland                           | Pologne                            | Polonia                        |
| Portugal                    | Portugal                         | Portugal                           | Portugal                       |
| Romania                     | Romania                          | Roumanie                           | Rumania                        |
| San Marino                  | San Marino                       | Saint-Marin                        | San Marino                     |

| <b>Label/En-tête/Rótulo</b> | <b>English</b>                                       | <b>Français</b>                                     | <b>Español</b>                                  |
|-----------------------------|--|---|---|
| Serbia                      | Serbia   | Serbie  | Serbia  |
| Slovakia                    | Slovakia   | Slovaquie   | Eslovaquia                                      |
| Slovenia                    | Slovenia   | Slovénie  | Eslovenia                                       |
| Spain                       | Spain  | Espagne   | España  |
| Sweden                      | Sweden   | Suède   | Suecia  |
| Switzerland                 | Switzerland  | Suisse  | Suiza   |
| UK                          | United Kingdom of Great Britain and Northern Ireland | Royaume-Uni de Grande-Bretagne et d'Irlande du Nord | Reino Unido de Gran Bretaña e Irlanda del Norte |
| Ukraine                     | Ukraine  | Ukraine   | Ucrania   |
| <b>MIDDLE EAST</b>          | <b>MIDDLE EAST</b>                                   | <b>MOYEN-ORIENT</b>                                 | <b>MEDIO ESTE</b>                               |
| Bahrain                     | Bahrain  | Bahreïn   | Bahréin   |
| Iran IR                     | Iran (Islamic Republic of)                           | République islamique d'Iran                         | Irán (República Islámica del)                   |
| Iraq                        | Iraq   | Iraq  | Iraq  |
| Israel                      | Israel   | Israël  | Israel  |
| Jordan                      | Jordan   | Jordanie  | Jordania  |
| Kuwait                      | Kuwait   | Koweït  | Kuwait  |
| Lebanon                     | Lebanon  | Liban   | Líbano  |
| Oman                        | Oman   | Oman  | Omán  |
| Qatar                       | Qatar  | Qatar   | Qatar   |
| Saudi Arabia                | Saudi Arabia   | Arabie saoudite                                     | Arabia Saudita                                  |
| Palestine                   | State of Palestine                                   | État de Palestine                                   | Estado de Palestina                             |
| Syrian AR                   | Syrian Arab Republic                                 | République arabe syrienne                           | República Árabe Siria                           |
| United Arab Em              | United Arab Emirates                                 | Émirats arabes unis                                 | Emiratos Árabes Unidos                          |
| Yemen                       | Yemen  | Yémen   | Yemen   |
| <b>N AMERICA</b>            | <b>NORTH AMERICA</b>                                 | <b>AMÉRIQUE DU NORD</b>                             | <b>NORTEAMÉRICA</b>                             |
| Bermuda                     | Bermuda  | Bermudes  | Bermudas  |
| Canada                      | Canada   | Canada  | Canadá  |
| Greenland                   | Greenland  | Groenland   | Groenlandia                                     |
| Mexico                      | Mexico   | Mexique   | México  |
| St Pierre Mq                | Saint Pierre and Miquelon                            | Saint-Pierre-et-Miquelon                            | San Pedro y Miquelón                            |
| USA                         | United States of America                             | États-Unis d'Amérique                               | Estados Unidos de América                       |
| <b>OCEANIA</b>              | <b>OCEANIA</b>                                       | <b>OCEANIE</b>                                      | <b>OCEANÍA</b>                                  |
| Amer Samoa                  | American Samoa                                       | Samoa américaines                                   | Samoa americana                                 |
| Australia                   | Australia  | Australie   | Australia                                       |
| Christmas Is                | Christmas Island                                     | Île Christmas                                       | Isla Christmas                                  |
| Cocos Is                    | Cocos (Keeling) Islands                              | Îles des Cocos (Keeling)                            | Islas Cocos (Keeling)                           |
| Cook Is                     | Cook Islands   | Îles Cook   | Islas Cook                                      |
| Fiji                        | Fiji   | Fidji   | Fidji   |
| Fr Polynesia                | French Polynesia                                     | Polynésie française                                 | Polinesia francesa                              |
| Guam                        | Guam   | Guam  | Guam  |
| Kiribati                    | Kiribati   | Kiribati  | Kiribati  |
| Marshall Is                 | Marshall Islands                                     | Îles Marshall                                       | Islas Marshall                                  |
| Micronesia                  | Micronesia (Federated States of)                     | Micronésie (États fédérés de)                       | Micronesia (Estados Federados de)               |
| Nauru                       | Nauru  | Nauru   | Nauru   |
| New Caledon                 | New Caledonia  | Nouvelle-Calédonie                                  | Nueva Caledonia                                 |
| New Zealand                 | New Zealand  | Nouvelle-Zélande                                    | Nueva Zelandia                                  |
| Niue                        | Niue   | Nioué   | Niue  |
| Norfolk Is                  | Norfolk Island                                       | Île Norfolk   | Isla Norfolk                                    |
| Nth Mariana Is              | Northern Mariana Islands                             | Îles Mariannes du Nord                              | Islas Marianas del Norte                        |
| Palau                       | Palau  | Palaos  | Palau   |
| Papua N Guin                | Papua New Guinea                                     | Papouasie-Nouvelle-Guinée                           | Papua Nueva Guinea                              |
| Pitcairn                    | Pitcairn   | Pitcairn  | Pitcairn  |
| Samoa                       | Samoa  | Samoa   | Samoa   |
| Solomon Is                  | Solomon Islands                                      | Îles Salomon  | Islas Salomón                                   |
| Tokelau                     | Tokelau  | Tokelau   | Tokelau   |
| Tonga                       | Tonga  | Tonga   | Tonga   |
| Tuvalu                      | Tuvalu   | Tuvalu  | Tuvalu  |
| Vanuatu                     | Vanuatu  | Vanuatu   | Vanuatu   |
| Wallis Fut Is               | Wallis and Futuna Islands                            | Îles Wallis-et-Futuna                               | Islas Wallis y Futuna                           |

| <b>Label/En-tête/Rótulo</b> | <b>English</b>                     | <b>Français</b>                        | <b>Español</b>                       |
|-----------------------------|------------------------------------|--|--------------------------------------|
| S AMERICA                   | SOUTH AMERICA                      | AMÉRIQUE DU SUD                        | SUDAMERICA                           |
| Argentina                   | Argentina                          | Argentine                              | Argentina                            |
| Bolivia                     | Bolivia (Plurinational State of)   | Bolivie (État plurinational de)        | Bolivia (Estado Plurinacional de)    |
| Brazil                      | Brazil                             | Brésil                                 | Brasil                               |
| Chile                       | Chile                              | Chili                                  | Chile                                |
| Colombia                    | Colombia                           | Colombie                               | Colombia                             |
| Ecuador                     | Ecuador                            | Equateur                               | Ecuador                              |
| Falklands Malv              | Falkland Islands (Malvinas)        | Îles Falkland (Malvinas)               | Islas Malvinas (Falkland)            |
| Fr Guiana                   | French Guiana                      | Guyane française                       | Guayana Francesa                     |
| Guyana                      | Guyana                             | Guyana                                 | Guyana                               |
| Paraguay                    | Paraguay                           | Paraguay                               | Paraguay                             |
| Peru                        | Peru                               | Pérou                                  | Perú                                 |
| Suriname                    | Suriname                           | Suriname                               | Surinam                              |
| Uruguay                     | Uruguay                            | Uruguay                                | Uruguay                              |
| Venezuela                   | Venezuela (Bolivarian Republic of) | Venezuela (République bolivarienne du) | Venezuela (República Bolivariana de) |

Source: UN Standard Country or Area Codes for Statistical Use (M49)

<http://unstats.un.org/unsd/methods/m49/m49.htm>.

Note: (\*) Throughout this publication, the designation Kosovo\* is without prejudice to positions on status and in line with the United Nations Security Council Resolution 1244 (1999).

Capacity and Production (on-grid and off-grid)

Capacité et Production (sur réseau et hors réseau)

Capacidad y Generación (conectada a la red y aislada)

# Total renewable energy

## Total énergies renouvelables

## Total energías renovables

| CAP (MW)      | 2014             | 2015             | 2016             | 2017             | 2018             | 2019             | 2020             | 2021             | 2022             | 2023             |
|---------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| <b>World</b>  | <b>1 698 295</b> | <b>1 852 496</b> | <b>2 015 003</b> | <b>2 185 712</b> | <b>2 360 957</b> | <b>2 548 686</b> | <b>2 819 247</b> | <b>3 083 431</b> | <b>3 391 349</b> | <b>3 864 522</b> |
| <b>Africa</b> | <b>32 511</b>    | <b>34 770</b>    | <b>37 476</b>    | <b>42 869</b>    | <b>48 187</b>    | <b>50 310</b>    | <b>53 715</b>    | <b>55 611</b>    | <b>59 342</b>    | <b>62 066</b>    |
| Algeria       | 266              | 299              | 499              | 592              | 604              | 604              | 585              | 505              | 590              | 590              |
| Angola        | 1 020            | 1 020            | 1 752            | 2 445            | 3 113            | 3 448            | 3 782            | 3 782            | 4 066            | 4 091            |
| Benin         | 1                | 2                | 3                | 3                | 4                | 5                | 7                | 34               | 34               | 34               |
| Botswana      | 2                | 2                | 3                | 3                | 4                | 6                | 6                | 6                | 6                | 6                |
| Burkina Faso  | 34               | 38               | 39               | 74               | 89               | 91               | 91               | 92               | 123              | 214              |
| Burundi       | 55               | 55               | 56               | 54               | 54               | 54               | 54               | 61               | 76               | 76               |
| Cabo Verde    | 33               | 33               | 33               | 33               | 38               | 41               | 42               | 44               | 50               | 53               |
| Cameroon      | 732              | 732              | 732              | 744              | 744              | 825              | 826              | 839              | 840              | 876              |
| Cent Afr Rep  | 19               | 19               | 19               | 19               | 19               | 19               | 19               | 19               | 19               | 44               |
| Chad          | 2                | 2                | 3                | 3                | 4                | 4                | 4                | 5                | 5                | 5                |
| Comoros       | 1                | 1                | 2                | 3                | 3                | 3                | 3                | 2                | 5                | 5                |
| Congo DR      | 2 418            | 2 419            | 2 434            | 2 448            | 2 609            | 2 620            | 2 625            | 2 628            | 2 958            | 3 198            |
| Congo Rep     | 206              | 206              | 213              | 226              | 226              | 226              | 227              | 227              | 227              | 227              |
| Cote d'Ivoire | 604              | 604              | 604              | 880              | 881              | 883              | 885              | 887              | 888              | 925              |
| Djibouti      | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 20               | 20               | 80               |
| Egypt         | 3 457            | 3 658            | 3 681            | 3 802            | 4 793            | 5 690            | 5 934            | 6 258            | 6 322            | 6 709            |
| Eq Guinea     | 126              | 126              | 126              | 126              | 127              | 127              | 127              | 127              | 127              | 127              |
| Eritrea       | 9                | 9                | 10               | 24               | 27               | 27               | 27               | 26               | 26               | 26               |
| Eswatini      | 168              | 168              | 168              | 168              | 168              | 168              | 168              | 178              | 178              | 178              |
| Ethiopia      | 2 230            | 2 619            | 2 649            | 4 366            | 4 451            | 4 451            | 4 713            | 4 759            | 5 589            | 5 545            |
| Gabon         | 331              | 332              | 332              | 332              | 332              | 332              | 332              | 332              | 332              | 332              |
| Gambia        | 2                | 2                | 2                | 3                | 3                | 3                | 3                | 3                | 3                | 3                |
| Ghana         | 1 596            | 1 625            | 1 629            | 1 635            | 1 665            | 1 676            | 1 700            | 1 758            | 1 761            | 1 761            |
| Guinea        | 129              | 369              | 369              | 370              | 382              | 378              | 604              | 829              | 830              | 830              |
| Guinea Bissau | 0                | 0                | 1                | 1                | 2                | 2                | 2                | 2                | 2                | 2                |
| Kenya         | 1 271            | 1 560            | 1 629            | 1 671            | 2 059            | 2 085            | 2 297            | 2 472            | 2 660            | 2 736            |
| Lesotho       | 75               | 75               | 75               | 75               | 75               | 75               | 75               | 75               | 75               | 103              |
| Liberia       | 5                | 5                | 27               | 94               | 94               | 95               | 96               | 96               | 96               | 96               |
| Libya         | 5                | 5                | 5                | 5                | 5                | 5                | 5                | 6                | 6                | 8                |
| Madagascar    | 164              | 165              | 165              | 166              | 186              | 188              | 189              | 189              | 243              | 244              |
| Malawi        | 392              | 393              | 394              | 395              | 395              | 396              | 398              | 477              | 519              | 519              |
| Mali          | 325              | 327              | 328              | 366              | 366              | 367              | 418              | 449              | 593              | 593              |
| Mauritania    | 23               | 53               | 69               | 69               | 121              | 122              | 122              | 122              | 123              | 260              |
| Mauritius     | 146              | 172              | 188              | 195              | 237              | 262              | 270              | 272              | 270              | 270              |
| Mayotte       | 13               | 13               | 13               | 15               | 16               | 17               | 19               | 30               | 30               | 31               |
| Morocco       | 2 143            | 2 307            | 2 417            | 2 539            | 3 272            | 3 272            | 3 522            | 3 638            | 3 725            | 4 105            |
| Mozambique    | 2 267            | 2 268            | 2 269            | 2 269            | 2 269            | 2 309            | 2 312            | 2 313            | 2 354            | 2 369            |
| Namibia       | 334              | 339              | 371              | 415              | 444              | 496              | 501              | 501              | 526              | 526              |
| Niger         | 6                | 6                | 7                | 7                | 14               | 14               | 15               | 15               | 50               | 80               |
| Nigeria       | 2 122            | 2 129            | 2 135            | 2 140            | 2 145            | 2 157            | 2 216            | 2 245            | 2 274            | 2 984            |
| Reunion       | 359              | 380              | 383              | 384              | 428              | 436              | 445              | 463              | 470              | 475              |
| Rwanda        | 77               | 106              | 111              | 116              | 118              | 132              | 143              | 145              | 151              | 151              |
| Sao Tome Prn  | 2                | 2                | 2                | 2                | 2                | 2                | 2                | 2                | 2                | 2                |
| Senegal       | 27               | 28               | 57               | 129              | 172              | 251              | 355              | 423              | 446              | 446              |
| Seychelles    | 7                | 7                | 9                | 10               | 11               | 11               | 14               | 23               | 23               | 23               |
| Sierra Leone  | 90               | 90               | 91               | 96               | 96               | 99               | 101              | 109              | 115              | 115              |
| Somalia       | 2                | 3                | 4                | 5                | 6                | 6                | 14               | 22               | 46               | 49               |
| South Africa  | 2 711            | 3 430            | 4 652            | 6 552            | 7 911            | 8 014            | 9 523            | 9 827            | 10 505           | 10 623           |
| South Sudan   | 0                | 0                | 0                | 0                | 1                | 1                | 2                | 3                | 3                | 16               |
| Sudan         | 1 538            | 1 541            | 1 547            | 1 557            | 1 740            | 1 761            | 1 798            | 1 817            | 1 871            | 1 871            |
| Tanzania      | 654              | 660              | 667              | 673              | 676              | 682              | 687              | 690              | 691              | 691              |
| Togo          | 67               | 67               | 67               | 67               | 71               | 74               | 77               | 131              | 133              | 133              |
| Tunisia       | 312              | 330              | 340              | 349              | 375              | 391              | 406              | 406              | 508              | 817              |
| Uganda        | 769              | 782              | 784              | 827              | 908              | 1 178            | 1 196            | 1 198            | 1 224            | 1 224            |
| Zambia        | 2 302            | 2 312            | 2 433            | 2 444            | 2 447            | 2 537            | 2 539            | 2 846            | 3 306            | 3 341            |
| Zimbabwe      | 860              | 875              | 879              | 885              | 1 189            | 1 192            | 1 194            | 1 213            | 1 226            | 1 226            |

# Total renewable energy

## Total énergies renouvelables

## Total energías renovables

| CAP (MW)                 | 2014           | 2015           | 2016           | 2017           | 2018             | 2019             | 2020             | 2021             | 2022             | 2023             |
|--------------------------|----------------|----------------|----------------|----------------|------------------|------------------|------------------|------------------|------------------|------------------|
| <b>Asia</b>              | <b>633 140</b> | <b>722 384</b> | <b>813 317</b> | <b>920 590</b> | <b>1 025 152</b> | <b>1 125 137</b> | <b>1 301 278</b> | <b>1 455 904</b> | <b>1 630 944</b> | <b>1 959 076</b> |
| Afghanistan              | 299            | 303            | 349            | 372            | 372              | 381              | 380              | 388              | 493              | 493              |
| Bangladesh               | 445            | 474            | 443            | 495            | 518              | 558              | 622              | 784              | 801              | 1 026            |
| Bhutan                   | 1 488          | 1 615          | 1 615          | 1 615          | 1 615            | 2 335            | 2 335            | 2 335            | 2 335            | 2 336            |
| Brunei Darussalam        | 1              | 1              | 1              | 1              | 1                | 1                | 1                | 5                | 5                | 5                |
| Cambodia                 | 998            | 1 000          | 1 004          | 1 087          | 1 448            | 1 543            | 1 728            | 1 788            | 2 229            | 2 348            |
| China                    | 414 651        | 479 103        | 541 016        | 620 856        | 695 463          | 758 870          | 896 412          | 1 017 852        | 1 156 126        | 1 453 701        |
| China HK SAR             | 1              | 1              | 17             | 47             | 47               | 143              | 145              | 149              | 244              | 251              |
| Chinese Taipei           | 3 751          | 4 015          | 4 411          | 4 944          | 5 940            | 7 480            | 9 248            | 11 240           | 13 817           | 17 600           |
| India                    | 71 892         | 78 582         | 90 414         | 105 258        | 118 227          | 128 475          | 134 774          | 147 390          | 163 213          | 175 934          |
| Indonesia                | 8 418          | 8 575          | 9 065          | 9 459          | 9 804            | 10 300           | 10 462           | 11 537           | 12 603           | 13 332           |
| Japan                    | 55 520         | 66 905         | 75 563         | 83 598         | 90 723           | 98 685           | 107 935          | 115 170          | 122 922          | 128 782          |
| Kazakhstan               | 2 734          | 2 807          | 2 851          | 2 898          | 3 088            | 3 606            | 4 190            | 4 536            | 5 069            | 5 663            |
| Korea DPR                | 4 305          | 4 491          | 4 735          | 4 799          | 4 842            | 4 857            | 4 946            | 4 969            | 5 008            | 5 021            |
| Korea Rep                | 5 708          | 7 076          | 9 163          | 11 173         | 13 444           | 17 621           | 22 092           | 24 422           | 27 271           | 30 504           |
| Kyrgyzstan               | 3 671          | 3 677          | 3 689          | 3 673          | 3 673            | 3 674            | 3 674            | 2 780            | 2 780            | 3 210            |
| Lao PDR                  | 3 333          | 4 435          | 4 911          | 5 150          | 5 538            | 6 381            | 8 182            | 9 138            | 9 828            | 9 939            |
| Malaysia                 | 6 397          | 7 563          | 7 992          | 7 339          | 7 521            | 7 962            | 8 571            | 8 906            | 9 052            | 9 052            |
| Maldives                 | 5              | 6              | 9              | 12             | 18               | 22               | 28               | 32               | 37               | 39               |
| Mongolia                 | 85             | 85             | 97             | 180            | 251              | 276              | 280              | 280              | 280              | 280              |
| Myanmar                  | 3 247          | 3 259          | 3 344          | 3 358          | 3 374            | 3 417            | 3 413            | 3 439            | 3 509            | 3 509            |
| Nepal                    | 755            | 811            | 832            | 978            | 1 101            | 1 221            | 1 354            | 2 070            | 2 316            | 2 799            |
| Pakistan                 | 7 915          | 8 128          | 8 808          | 9 224          | 12 204           | 12 349           | 12 567           | 12 890           | 14 156           | 14 156           |
| Philippines              | 5 281          | 5 625          | 6 272          | 6 424          | 6 598            | 6 772            | 6 987            | 7 316            | 7 673            | 7 832            |
| Singapore                | 180            | 215            | 266            | 286            | 331              | 437              | 496              | 663              | 867              | 1 147            |
| Sri Lanka                | 1 833          | 1 876          | 1 953          | 2 057          | 2 181            | 2 332            | 2 457            | 2 723            | 2 929            | 3 122            |
| Tajikistan               | 4 983          | 4 983          | 4 983          | 4 983          | 4 984            | 5 744            | 5 744            | 5 745            | 5 763            | 5 763            |
| Thailand                 | 7 373          | 7 902          | 9 369          | 10 147         | 11 215           | 11 700           | 11 843           | 12 197           | 12 444           | 12 547           |
| Timor Leste              | 2              | 2              | 2              | 1              | 1                | 1                | 1                | 1                | 1                | 1                |
| Turkmenistan             | 1              | 1              | 1              | 1              | 1                | 1                | 1                | 2                | 2                | 2                |
| Uzbekistan               | 1 872          | 1 882          | 1 883          | 1 861          | 1 919            | 1 912            | 2 025            | 2 156            | 2 478            | 2 668            |
| Viet Nam                 | 15 999         | 16 990         | 18 271         | 18 296         | 18 713           | 26 084           | 38 386           | 43 000           | 44 691           | 46 012           |
| <b>C America + Carib</b> | <b>10 192</b>  | <b>11 888</b>  | <b>13 204</b>  | <b>14 035</b>  | <b>14 987</b>    | <b>15 892</b>    | <b>16 432</b>    | <b>17 067</b>    | <b>17 617</b>    | <b>18 559</b>    |
| Anguilla                 | 1              | 1              | 2              | 2              | 1                | 2                | 2                | 2                | 2                | 2                |
| Antigua Barb             | 0              | 3              | 4              | 4              | 9                | 9                | 13               | 15               | 15               | 16               |
| Aruba                    | 37             | 38             | 39             | 39             | 45               | 45               | 45               | 45               | 45               | 45               |
| Bahamas                  | 3              | 3              | 3              | 3              | 4                | 5                | 5                | 10               | 16               | 16               |
| Barbados                 | 1              | 3              | 15             | 16             | 17               | 33               | 49               | 64               | 71               | 71               |
| Belize                   | 83             | 83             | 83             | 91             | 92               | 97               | 97               | 97               | 97               | 97               |
| BES Islands              | 11             | 11             | 13             | 16             | 17               | 18               | 18               | 18               | 18               | 19               |
| Br Virgin Is             | 1              | 1              | 1              | 1              | 1                | 2                | 2                | 2                | 2                | 3                |
| Cayman Is                |                |                | 3              | 9              | 11               | 12               | 14               | 15               | 15               | 15               |
| Costa Rica               | 2 298          | 2 490          | 2 918          | 2 982          | 3 082            | 3 145            | 3 124            | 3 183            | 3 139            | 3 197            |
| Cuba                     | 495            | 537            | 518            | 594            | 668              | 603              | 772              | 811              | 790              | 802              |
| Curacao                  | 38             | 40             | 41             | 58             | 58               | 58               | 60               | 60               | 60               | 60               |
| Dominica                 | 7              | 7              | 8              | 8              | 7                | 7                | 7                | 7                | 7                | 7                |
| Dominican Rep            | 707            | 742            | 840            | 924            | 1 071            | 1 411            | 1 462            | 1 660            | 1 860            | 2 201            |
| El Salvador              | 831            | 915            | 971            | 1 159          | 1 252            | 1 491            | 1 594            | 1 675            | 1 706            | 1 745            |
| Grenada                  | 1              | 1              | 2              | 2              | 3                | 3                | 4                | 4                | 4                | 4                |
| Guadeloupe               | 146            | 150            | 151            | 156            | 175              | 191              | 206              | 218              | 225              | 225              |
| Guatemala                | 1 793          | 2 183          | 2 603          | 2 691          | 2 840            | 2 870            | 2 871            | 2 700            | 2 705            | 2 711            |
| Haiti                    | 58             | 58             | 59             | 59             | 81               | 81               | 81               | 81               | 81               | 82               |
| Honduras                 | 924            | 1 359          | 1 481          | 1 614          | 1 698            | 1 746            | 1 865            | 1 881            | 1 941            | 1 941            |
| Jamaica                  | 108            | 111            | 192            | 220            | 220              | 271              | 271              | 271              | 271              | 274              |
| Martinique               | 66             | 70             | 71             | 73             | 116              | 134              | 135              | 140              | 140              | 146              |
| Montserrat               |                |                |                |                | 0                | 0                | 1                | 1                | 1                | 1                |
| Nicaragua                | 596            | 613            | 663            | 676            | 676              | 733              | 733              | 734              | 748              | 750              |
| Panama                   | 1 692          | 2 032          | 2 051          | 2 112          | 2 308            | 2 354            | 2 383            | 2 647            | 2 781            | 2 933            |
| Puerto Rico              | 276            | 406            | 443            | 502            | 505              | 537              | 583              | 689              | 841              | 1 157            |
| St Barth                 |                |                | 0              | 0              | 0                | 0                | 0                | 0                | 0                | 0                |
| St Kitts Nevis           | 4              | 4              | 4              | 4              | 4                | 5                | 5                | 5                | 5                | 5                |
| St Lucia                 | 0              | 1              | 1              | 1              | 4                | 4                | 4                | 4                | 4                | 4                |
| St Martin                | 2              | 3              | 2              | 0              | 0                | 1                | 1                | 1                | 2                | 2                |
| St Vincent Gren          | 6              | 8              | 8              | 8              | 9                | 10               | 10               | 10               | 10               | 11               |
| Trinidad Tobago          | 4              | 4              | 4              | 4              | 4                | 4                | 4                | 4                | 4                | 4                |
| Turks Caicos             | 0              | 0              | 0              | 0              | 1                | 1                | 3                | 3                | 3                | 4                |
| US Virgin Is             | 5              | 9              | 9              | 5              | 10               | 10               | 10               | 10               | 10               | 10               |
| <b>Eurasia</b>           | <b>84 742</b>  | <b>88 542</b>  | <b>91 912</b>  | <b>96 576</b>  | <b>100 719</b>   | <b>104 278</b>   | <b>110 463</b>   | <b>115 841</b>   | <b>119 154</b>   | <b>122 145</b>   |
| Armenia                  | 1 301          | 1 289          | 1 316          | 1 332          | 1 357            | 1 364            | 1 403            | 1 494            | 1 583            | 1 762            |
| Azerbaijan               | 1 120          | 1 154          | 1 184          | 1 194          | 1 277            | 1 289            | 1 296            | 1 316            | 1 325            | 1 688            |
| Georgia                  | 2 800          | 2 802          | 3 180          | 3 134          | 3 241            | 3 324            | 3 349            | 3 393            | 3 420            | 3 525            |
| Russian Fed              | 51 581         | 51 781         | 51 787         | 52 170         | 52 614           | 53 913           | 55 219           | 56 462           | 56 880           | 56 708           |
| Türkiye                  | 27 940         | 31 516         | 34 446         | 38 746         | 42 230           | 44 389           | 49 195           | 53 175           | 55 946           | 58 462           |

# Total renewable energy

## Total énergies renouvelables

## Total energías renovables

| CAP (MW)              | 2014           | 2015           | 2016           | 2017           | 2018           | 2019           | 2020           | 2021           | 2022           | 2023           |
|-----------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| <b>Europe</b>         | <b>439 951</b> | <b>465 128</b> | <b>488 677</b> | <b>513 004</b> | <b>537 514</b> | <b>574 844</b> | <b>609 134</b> | <b>651 443</b> | <b>715 649</b> | <b>785 821</b> |
| Albania               | 1 726          | 1 799          | 1 914          | 2 049          | 2 107          | 2 177          | 2 409          | 2 531          | 2 595          | 2 735          |
| Andorra               | 51             | 51             | 51             | 51             | 52             | 53             | 54             | 55             | 55             | 55             |
| Austria               | 17 839         | 18 473         | 19 336         | 19 596         | 20 376         | 20 774         | 21 156         | 22 110         | 23 489         | 26 712         |
| Belarus               | 81             | 97             | 222            | 300            | 390            | 415            | 491            | 492            | 628            | 632            |
| Belgium               | 5 982          | 6 368          | 6 695          | 7 419          | 8 300          | 9 511          | 11 273         | 11 888         | 13 053         | 15 047         |
| Bosnia Herzg          | 1 719          | 1 725          | 1 776          | 1 808          | 1 886          | 1 930          | 1 953          | 2 039          | 2 086          | 2 116          |
| Bulgaria              | 4 123          | 4 136          | 4 145          | 4 289          | 4 316          | 4 319          | 4 364          | 4 532          | 5 015          | 6 215          |
| Croatia               | 2 577          | 2 713          | 2 793          | 2 916          | 2 979          | 3 068          | 3 255          | 3 490          | 3 585          | 3 980          |
| Cyprus                | 221            | 244            | 252            | 278            | 289            | 322            | 400            | 485            | 595            | 778            |
| Czechia               | 4 170          | 4 214          | 4 212          | 4 278          | 4 271          | 4 375          | 4 451          | 4 552          | 4 734          | 4 822          |
| Denmark               | 6 750          | 7 109          | 7 410          | 8 194          | 8 902          | 9 180          | 9 656          | 10 867         | 12 167         | 13 024         |
| Estonia               | 561            | 594            | 607            | 615            | 609            | 716            | 829            | 1 012          | 1 140          | 1 532          |
| Faroe Islands         | 60             | 60             | 60             | 60             | 56             | 53             | 59             | 64             | 64             | 64             |
| Finland               | 5 747          | 6 142          | 6 746          | 7 512          | 7 563          | 7 890          | 8 774          | 9 564          | 12 709         | 14 093         |
| France                | 40 733         | 43 024         | 45 059         | 48 036         | 50 687         | 53 544         | 55 847         | 59 700         | 64 692         | 67 916         |
| Germany               | 90 325         | 97 851         | 104 436        | 112 514        | 118 905        | 125 068        | 131 686        | 139 077        | 149 143        | 166 939        |
| Greece                | 8 010          | 8 138          | 8 424          | 8 686          | 9 020          | 9 923          | 10 921         | 12 456         | 13 681         | 15 805         |
| Hungary               | 1 024          | 1 077          | 1 048          | 1 224          | 1 630          | 2 288          | 3 024          | 3 906          | 5 155          | 6 758          |
| Iceland               | 2 653          | 2 658          | 2 659          | 2 711          | 2 862          | 2 869          | 2 879          | 2 879          | 2 880          | 2 880          |
| Ireland               | 2 593          | 2 763          | 3 122          | 3 688          | 4 067          | 4 567          | 4 803          | 4 911          | 5 170          | 5 889          |
| Italy                 | 49 526         | 50 417         | 51 195         | 52 128         | 53 161         | 54 373         | 55 493         | 56 856         | 59 479         | 65 157         |
| Kosovo*               | 44             | 44             | 81             | 121            | 121            | 139            | 154            | 158            | 192            | 267            |
| Latvia                | 1 778          | 1 782          | 1 778          | 1 796          | 1 804          | 1 826          | 1 826          | 1 823          | 1 927          | 2 194          |
| Lithuania             | 545            | 693            | 768            | 787            | 836            | 859            | 937            | 1 159          | 1 753          | 2 785          |
| Luxembourg            | 225            | 239            | 301            | 318            | 324            | 386            | 430            | 504            | 572            | 782            |
| Malta                 | 58             | 78             | 98             | 116            | 137            | 160            | 193            | 210            | 225            | 234            |
| Moldova Rep           | 69             | 69             | 71             | 81             | 106            | 110            | 116            | 153            | 255            | 308            |
| Montenegro            | 653            | 662            | 668            | 747            | 748            | 794            | 817            | 817            | 837            | 857            |
| Netherlands           | 4 661          | 5 748          | 7 203          | 7 937          | 9 867          | 12 569         | 18 663         | 23 472         | 29 329         | 35 627         |
| North Macedonia       | 682            | 716            | 720            | 731            | 736            | 742            | 820            | 828            | 973            | 1 354          |
| Norway                | 32 252         | 32 394         | 32 814         | 33 251         | 34 396         | 35 912         | 37 999         | 39 406         | 39 774         | 40 211         |
| Poland                | 5 638          | 6 919          | 7 881          | 7 982          | 8 301          | 9 361          | 12 275         | 16 457         | 22 522         | 27 331         |
| Portugal              | 11 573         | 12 154         | 13 209         | 13 541         | 13 753         | 14 118         | 14 208         | 15 074         | 17 109         | 18 415         |
| Romania               | 11 152         | 11 212         | 11 162         | 11 145         | 11 169         | 11 169         | 11 121         | 11 120         | 11 580         | 11 763         |
| Serbia                | 2 423          | 2 440          | 2 461          | 2 482          | 2 695          | 2 910          | 2 928          | 2 957          | 3 067          | 3 181          |
| Slovakia              | 2 380          | 2 384          | 2 397          | 2 385          | 2 329          | 2 431          | 2 377          | 2 406          | 2 433          | 2 515          |
| Slovenia              | 1 405          | 1 420          | 1 408          | 1 479          | 1 474          | 1 512          | 1 612          | 1 704          | 1 863          | 2 296          |
| Spain                 | 46 850         | 47 708         | 47 798         | 47 948         | 48 283         | 54 601         | 57 313         | 62 011         | 73 818         | 80 136         |
| Sweden                | 25 528         | 26 869         | 27 805         | 28 179         | 29 180         | 31 156         | 31 951         | 34 505         | 37 573         | 40 646         |
| Switzerland           | 14 638         | 15 040         | 16 259         | 17 049         | 17 470         | 17 826         | 18 334         | 19 025         | 19 726         | 21 440         |
| UK                    | 24 880         | 30 800         | 35 436         | 40 046         | 43 907         | 46 664         | 47 522         | 49 267         | 53 086         | 55 720         |
| Ukraine               | 6 048          | 6 105          | 6 199          | 6 530          | 7 455          | 12 189         | 13 764         | 14 921         | 14 612         |                |
| <b>European Union</b> | <b>352 718</b> | <b>371 257</b> | <b>388 080</b> | <b>405 786</b> | <b>423 435</b> | <b>451 019</b> | <b>479 820</b> | <b>516 882</b> | <b>575 557</b> | <b>640 449</b> |
| <b>Middle East</b>    | <b>15 962</b>  | <b>15 905</b>  | <b>16 719</b>  | <b>17 087</b>  | <b>18 645</b>  | <b>21 432</b>  | <b>23 618</b>  | <b>25 876</b>  | <b>30 501</b>  | <b>35 825</b>  |
| Bahrain               | 6              | 6              | 7              | 7              | 7              | 10             | 11             | 22             | 48             | 59             |
| Iran IR               | 10 954         | 10 411         | 10 783         | 11 367         | 11 638         | 11 803         | 11 901         | 11 930         | 12 399         | 12 653         |
| Iraq                  | 2 311          | 2 311          | 2 311          | 1 594          | 1 594          | 1 594          | 1 594          | 1 594          | 1 599          | 1 599          |
| Israel                | 686            | 837            | 968            | 1 068          | 1 408          | 2 200          | 2 711          | 3 650          | 4 579          | 4 872          |
| Jordan                | 17             | 200            | 514            | 635            | 1 074          | 1 374          | 2 088          | 2 460          | 2 597          | 2 621          |
| Kuwait                | 6              | 7              | 24             | 25             | 46             | 97             | 97             | 97             | 114            | 114            |
| Lebanon               | 292            | 298            | 318            | 331            | 347            | 368            | 382            | 482            | 1 167          | 1 297          |
| Oman                  | 1              | 2              | 2              | 8              | 26             | 76             | 179            | 205            | 705            | 722            |
| Palestine             | 3              | 12             | 25             | 35             | 40             | 82             | 118            | 178            | 192            | 192            |
| Qatar                 | 23             | 23             | 24             | 24             | 24             | 24             | 24             | 24             | 824            | 824            |
| Saudi Arabia          | 24             | 24             | 24             | 37             | 87             | 112            | 412            | 442            | 843            | 2 988          |
| Syrian AR             | 1 501          | 1 579          | 1 501          | 1 497          | 1 499          | 1 500          | 1 509          | 1 530          | 1 557          | 1 557          |
| United Arab Em        | 133            | 134            | 136            | 354            | 601            | 1 936          | 2 334          | 3 003          | 3 613          | 6 035          |
| Yemen                 | 5              | 60             | 81             | 103            | 253            | 254            | 258            | 264            | 290            |                |
| <b>N America</b>      | <b>287 519</b> | <b>309 486</b> | <b>333 151</b> | <b>349 639</b> | <b>367 827</b> | <b>392 949</b> | <b>424 732</b> | <b>462 211</b> | <b>492 473</b> | <b>526 967</b> |
| Canada                | 89 773         | 95 973         | 97 881         | 99 131         | 100 743        | 101 328        | 101 812        | 103 808        | 106 359        | 108 718        |
| Greenland             | 92             | 92             | 92             | 92             | 92             | 92             | 92             | 93             | 93             | 93             |
| Mexico                | 16 684         | 17 412         | 19 004         | 19 701         | 21 398         | 27 709         | 29 301         | 31 577         | 31 708         | 32 950         |
| St Pierre Mq          | 1              |                |                |                |                |                |                |                |                |                |
| USA                   | 180 970        | 196 009        | 216 174        | 230 714        | 245 595        | 263 821        | 293 527        | 326 733        | 354 314        | 385 205        |

**Total renewable energy**  
**Total énergies renouvelables**  
**Total energías renovables**

| CAP (MW)         | 2014           | 2015           | 2016           | 2017           | 2018           | 2019           | 2020           | 2021           | 2022           | 2023           |
|------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| <b>Oceania</b>   | <b>24 206</b>  | <b>25 747</b>  | <b>27 029</b>  | <b>29 181</b>  | <b>34 389</b>  | <b>40 267</b>  | <b>47 008</b>  | <b>52 314</b>  | <b>58 744</b>  | <b>64 400</b>  |
| Amer Samoa       | 2              | 2              | 4              | 4              | 5              | 5              | 5              | 5              | 5              | 5              |
| Australia        | 16 220         | 17 641         | 18 889         | 20 975         | 26 114         | 31 911         | 38 563         | 43 535         | 49 437         | 54 834         |
| Cook Is          | 2              | 3              | 3              | 3              | 5              | 6              | 6              | 6              | 6              | 6              |
| Fiji             | 191            | 198            | 200            | 215            | 216            | 216            | 216            | 224            | 224            | 226            |
| Fr Polynesia     | 73             | 77             | 80             | 83             | 86             | 90             | 94             | 95             | 102            | 102            |
| Guam             | 1              | 32             | 35             | 37             | 38             | 40             | 42             | 43             | 105            | 105            |
| Kiribati         | 1              | 2              | 3              | 3              | 3              | 3              | 3              | 3              | 3              | 3              |
| Marshall Is      | 1              | 1              | 2              | 2              | 2              | 2              | 2              | 2              | 2              | 2              |
| Micronesia       | 2              | 2              | 2              | 2              | 4              | 4              | 4              | 4              | 4              | 4              |
| Nauru            | 0              | 0              | 1              | 1              | 1              | 2              | 2              | 3              | 3              | 3              |
| New Caledon      | 120            | 123            | 126            | 143            | 156            | 191            | 215            | 266            | 319            | 324            |
| New Zealand      | 7 253          | 7 300          | 7 309          | 7 331          | 7 375          | 7 407          | 7 465          | 7 735          | 8 128          | 8 297          |
| Niue             | 0              | 0              | 0              | 0              | 0              | 1              | 1              | 1              | 1              | 1              |
| Palau            | 1              | 1              | 2              | 2              | 3              | 3              | 3              | 4              | 4              | 20             |
| Papua N Guin     | 309            | 327            | 328            | 328            | 328            | 329            | 329            | 330            | 333            | 399            |
| Samoa            | 15             | 17             | 24             | 27             | 28             | 29             | 30             | 30             | 30             | 30             |
| Solomon Is       | 2              | 2              | 3              | 4              | 4              | 4              | 4              | 4              | 5              | 6              |
| Tokelau          | 1              | 1              | 1              | 1              | 1              | 1              | 1              | 1              | 1              | 1              |
| Tonga            | 3              | 4              | 5              | 7              | 7              | 8              | 8              | 8              | 16             | 16             |
| Tuvalu           | 0              | 4              | 4              | 4              | 4              | 4              | 4              | 4              | 4              | 4              |
| Vanuatu          | 8              | 8              | 9              | 10             | 11             | 12             | 12             | 12             | 12             | 12             |
| <b>S America</b> | <b>170 073</b> | <b>178 645</b> | <b>193 516</b> | <b>202 731</b> | <b>213 538</b> | <b>223 576</b> | <b>232 868</b> | <b>247 165</b> | <b>266 925</b> | <b>289 663</b> |
| Argentina        | 10 532         | 10 563         | 10 625         | 10 745         | 11 512         | 12 664         | 14 102         | 15 114         | 15 185         | 15 886         |
| Bolivia          | 543            | 609            | 647            | 754            | 905            | 911            | 1 027          | 1 176          | 1 226          | 1 299          |
| Brazil           | 106 445        | 112 646        | 121 378        | 128 425        | 136 613        | 144 658        | 150 685        | 161 483        | 176 709        | 194 085        |
| Chile            | 8 272          | 8 413          | 9 177          | 10 318         | 10 976         | 11 556         | 13 087         | 15 099         | 18 346         | 21 487         |
| Colombia         | 11 134         | 11 757         | 11 888         | 12 071         | 12 194         | 12 288         | 12 384         | 12 500         | 13 405         | 14 298         |
| Ecuador          | 2 440          | 2 599          | 4 640          | 4 715          | 5 267          | 5 277          | 5 298          | 5 300          | 5 394          | 5 448          |
| Falklands Malv   | 3              | 3              | 3              | 3              | 3              | 3              | 3              | 3              | 3              | 3              |
| Fr Guiana        | 158            | 173            | 173            | 173            | 173            | 179            | 180            | 180            | 181            | 181            |
| Guyana           | 55             | 55             | 46             | 48             | 50             | 53             | 53             | 54             | 55             | 60             |
| Paraguay         | 8 839          | 8 839          | 8 839          | 8 839          | 8 839          | 8 865          | 8 866          | 8 866          | 8 867          | 8 867          |
| Peru             | 4 078          | 4 711          | 5 751          | 5 847          | 6 123          | 6 312          | 6 368          | 6 431          | 6 578          | 6 744          |
| South Georgia    | 0              | 0              | 0              | 0              | 0              | 0              | 0              | 0              | 0              | 0              |
| Suriname         | 186            | 188            | 188            | 189            | 190            | 190            | 191            | 191            | 193            | 193            |
| Uruguay          | 2 441          | 2 888          | 3 267          | 3 711          | 3 723          | 3 731          | 3 736          | 3 744          | 3 758          | 4 089          |
| Venezuela        | 14 944         | 15 201         | 16 892         | 16 892         | 16 969         | 16 889         | 16 889         | 17 024         | 17 024         | 17 025         |

# Total renewable energy

## Total énergies renouvelables

### Total energías renovables

| PROD (GWh)    | 2014             | 2015             | 2016             | 2017             | 2018             | 2019             | 2020             | 2021             | 2022             |
|---------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| <b>World</b>  | <b>5 304 340</b> | <b>5 512 471</b> | <b>5 869 293</b> | <b>6 237 087</b> | <b>6 633 769</b> | <b>6 994 086</b> | <b>7 458 042</b> | <b>7 872 657</b> | <b>8 439 671</b> |
| <b>Africa</b> | <b>134 903</b>   | <b>137 604</b>   | <b>138 341</b>   | <b>148 628</b>   | <b>161 983</b>   | <b>173 792</b>   | <b>184 970</b>   | <b>197 613</b>   | <b>204 542</b>   |
| Algeria       | 393              | 360              | 464              | 501              | 815              | 873              | 874              | 813              | 867              |
| Angola        | 5 076            | 5 082            | 6 442            | 9 045            | 11 524           | 12 764           | 14 004           | 14 004           | 14 407           |
| Benin         | 1                | 4                | 4                | 4                | 4                | 6                | 7                | 8                | 11               |
| Botswana      | 3                | 3                | 5                | 5                | 6                | 6                | 6                | 6                | 6                |
| Burkina Faso  | 94               | 98               | 145              | 144              | 177              | 198              | 204              | 222              | 177              |
| Burundi       | 187              | 180              | 184              | 191              | 249              | 272              | 279              | 264              | 264              |
| Cabo Verde    | 89               | 85               | 83               | 75               | 89               | 83               | 71               | 81               | 146              |
| Cameroon      | 4 373            | 4 373            | 4 359            | 4 768            | 5 050            | 5 044            | 5 251            | 5 269            | 5 269            |
| Cent Afr Rep  | 141              | 139              | 132              | 142              | 142              | 142              | 142              | 142              | 142              |
| Chad          | 9                | 9                | 18               | 18               | 18               | 16               | 18               | 20               | 20               |
| Comoros       | 5                |                  | 1                | 2                | 2                | 2                | 2                | 1                | 0                |
| Congo DR      | 8 722            | 8 769            | 8 834            | 9 419            | 10 536           | 11 517           | 12 589           | 14 305           | 15 424           |
| Congo Rep     | 1 069            | 1 129            | 1 164            | 1 235            | 1 078            | 1 079            | 1 079            | 1 079            | 1 079            |
| Cote d'Ivoire | 1 914            | 1 353            | 1 530            | 2 049            | 2 965            | 3 487            | 3 384            | 2 637            | 2 876            |
| Djibouti      | 1                | 1                | 1                | 1                | 1                | 1                | 1                | 70               | 70               |
| Egypt         | 15 157           | 15 640           | 16 121           | 15 973           | 15 942           | 17 968           | 23 972           | 25 164           | 26 488           |
| Eq Guinea     | 127              | 127              | 127              | 127              | 127              | 127              | 127              | 127              | 127              |
| Eritrea       | 17               | 17               | 19               | 46               | 51               | 51               | 51               | 50               | 49               |
| Eswatini      | 459              | 426              | 335              | 303              | 378              | 414              | 422              | 462              | 484              |
| Ethiopia      | 7 396            | 9 563            | 10 509           | 12 580           | 13 259           | 14 553           | 15 072           | 15 810           | 15 514           |
| Gabon         | 795              | 920              | 824              | 917              | 984              | 984              | 984              | 984              | 983              |
| Gambia        | 3                | 3                | 4                | 4                | 4                | 5                | 5                | 5                | 5                |
| Ghana         | 8 413            | 5 877            | 5 600            | 5 905            | 6 079            | 7 462            | 7 381            | 7 615            | 8 291            |
| Guinea        | 435              | 887              | 1 084            | 1 213            | 1 211            | 1 310            | 1 516            | 2 668            | 2 972            |
| Guinea Bissau | 0                | 1                | 2                | 3                | 3                | 3                | 3                | 3                | 3                |
| Kenya         | 7 137            | 8 378            | 8 626            | 8 516            | 9 045            | 9 507            | 9 796            | 9 682            | 9 283            |
| Lesotho       | 522              | 534              | 512              | 503              | 517              | 393              | 427              | 532              | 482              |
| Liberia       | 26               | 26               | 26               | 130              | 130              | 131              | 132              | 133              | 134              |
| Libya         | 8                | 8                | 8                | 8                | 8                | 8                | 8                | 8                | 8                |
| Madagascar    | 835              | 967              | 921              | 820              | 1 038            | 959              | 892              | 841              | 940              |
| Malawi        | 2 019            | 2 008            | 1 947            | 1 636            | 1 478            | 1 728            | 1 735            | 1 755            | 1 757            |
| Mali          | 1 555            | 1 568            | 1 689            | 1 751            | 1 753            | 1 756            | 1 837            | 1 884            | 1 891            |
| Mauritania    | 43               | 130              | 163              | 165              | 252              | 280              | 276              | 276              | 250              |
| Mauritius     | 598              | 682              | 666              | 630              | 655              | 710              | 696              | 649              | 602              |
| Mayotte       | 15               | 15               | 15               | 17               | 17               | 25               | 27               | 44               | 44               |
| Morocco       | 3 644            | 4 454            | 4 708            | 4 720            | 6 569            | 7 626            | 7 062            | 7 828            | 7 237            |
| Mozambique    | 16 250           | 17 217           | 15 746           | 14 209           | 14 029           | 14 968           | 15 866           | 15 626           | 16 319           |
| Namibia       | 1 498            | 1 443            | 1 508            | 1 466            | 1 303            | 1 607            | 1 662            | 1 316            | 1 525            |
| Niger         | 11               | 11               | 11               | 11               | 13               | 24               | 24               | 24               | 24               |
| Nigeria       | 6 169            | 6 458            | 8 195            | 7 805            | 7 762            | 8 514            | 7 991            | 9 322            | 9 447            |
| Reunion       | 942              | 1 044            | 1 004            | 967              | 1 079            | 953              | 935              | 872              | 1 157            |
| Rwanda        | 305              | 348              | 351              | 332              | 363              | 433              | 558              | 595              | 554              |
| Sao Tome Prn  | 8                | 7                | 6                | 5                | 5                | 6                | 6                | 6                | 6                |
| Senegal       | 45               | 57               | 62               | 154              | 287              | 348              | 533              | 847              | 886              |
| Seychelles    | 8                | 8                | 10               | 11               | 13               | 12               | 15               | 24               | 26               |
| Sierra Leone  | 183              | 199              | 230              | 240              | 240              | 244              | 247              | 258              | 259              |
| Somalia       | 4                | 5                | 7                | 9                | 10               | 10               | 23               | 36               | 72               |
| South Africa  | 2 369            | 3 711            | 4 648            | 6 498            | 7 955            | 8 369            | 9 678            | 11 169           | 12 261           |
| South Sudan   | 0                | 0                | 0                | 0                | 1                | 1                | 3                | 4                | 4                |
| Sudan         | 9 042            | 8 551            | 8 189            | 9 497            | 9 799            | 10 341           | 11 138           | 10 195           | 10 293           |
| Tanzania      | 2 782            | 2 323            | 2 602            | 2 597            | 2 492            | 2 744            | 3 415            | 3 421            | 3 424            |
| Togo          | 120              | 57               | 204              | 205              | 109              | 137              | 90               | 158              | 121              |
| Tunisia       | 591              | 562              | 586              | 603              | 648              | 824              | 857              | 933              | 876              |
| Uganda        | 3 508            | 3 411            | 3 557            | 3 704            | 3 971            | 4 411            | 4 429            | 4 793            | 5 455            |
| Zambia        | 14 115           | 13 129           | 11 152           | 12 586           | 13 845           | 12 585           | 13 116           | 16 387           | 17 368           |
| Zimbabwe      | 5 692            | 5 246            | 3 003            | 4 167            | 5 906            | 5 773            | 4 055            | 6 185            | 6 163            |

# Total renewable energy

## Total énergies renouvelables

## Total energías renovables

| PROD (GWh)               | 2014      | 2015      | 2016      | 2017      | 2018      | 2019      | 2020      | 2021      | 2022      |
|--------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| <b>Asia</b>              |           |           |           |           |           |           |           |           |           |
| Afghanistan              | 1 000     | 1 034     | 1 061     | 1 082     | 921       | 1 277     | 1 054     | 929       | 832       |
| Bangladesh               | 887       | 1 102     | 1 269     | 1 391     | 1 266     | 1 226     | 1 276     | 1 384     | 1 592     |
| Bhutan                   | 7 165     | 7 747     | 7 960     | 7 723     | 6 960     | 8 646     | 11 371    | 10 823    | 10 772    |
| Brunei Darussalam        | 2         | 1         | 1         | 2         | 2         | 1         | 1         | 1         | 1         |
| Cambodia                 | 1 944     | 2 279     | 2 694     | 2 854     | 4 909     | 4 296     | 4 299     | 5 795     | 6 705     |
| China                    | 1 269 856 | 1 381 355 | 1 522 405 | 1 648 541 | 1 810 864 | 1 986 041 | 2 149 036 | 2 402 806 | 2 625 256 |
| China HK SAR             | 92        | 79        | 96        | 99        | 100       | 113       | 146       | 264       | 332       |
| Chinese Taipei           | 8 260     | 8 784     | 11 032    | 10 695    | 10 863    | 13 440    | 13 392    | 15 700    | 22 017    |
| India                    | 199 441   | 197 286   | 189 883   | 208 871   | 236 537   | 272 130   | 299 009   | 307 364   | 338 189   |
| Indonesia                | 34 512    | 33 681    | 39 710    | 43 330    | 48 194    | 47 563    | 52 429    | 55 767    | 65 044    |
| Japan                    | 129 582   | 145 948   | 151 237   | 167 718   | 174 636   | 185 278   | 197 599   | 211 427   | 218 826   |
| Kazakhstan               | 8 321     | 9 488     | 12 030    | 11 694    | 11 024    | 11 304    | 12 122    | 12 656    | 13 259    |
| Korea DPR                | 13 666    | 10 032    | 12 844    | 11 950    | 12 868    | 11 087    | 12 906    | 16 235    | 16 753    |
| Korea Rep                | 8 553     | 10 642    | 15 981    | 18 635    | 23 043    | 27 405    | 33 750    | 37 592    | 45 400    |
| Kyrgyzstan               | 13 298    | 11 093    | 11 498    | 14 204    | 14 318    | 13 859    | 13 979    | 12 957    | 11 929    |
| Lao PDR                  | 15 804    | 16 789    | 24 926    | 31 151    | 33 970    | 29 390    | 33 238    | 37 161    | 39 327    |
| Malaysia                 | 14 158    | 16 231    | 20 920    | 27 542    | 28 493    | 28 860    | 30 597    | 30 626    | 30 627    |
| Maldives                 | 8         | 10        | 14        | 19        | 27        | 33        | 43        | 49        | 56        |
| Mongolia                 | 203       | 223       | 253       | 269       | 480       | 664       | 660       | 814       | 760       |
| Myanmar                  | 10 533    | 10 875    | 12 385    | 13 507    | 14 969    | 13 243    | 11 518    | 12 234    | 11 876    |
| Nepal                    | 3 634     | 3 616     | 3 853     | 4 508     | 4 839     | 5 618     | 6 278     | 8 015     | 10 290    |
| Pakistan                 | 34 848    | 36 880    | 37 914    | 36 352    | 37 112    | 42 468    | 45 607    | 45 382    | 44 928    |
| Philippines              | 19 213    | 20 322    | 21 373    | 22 585    | 22 731    | 21 463    | 21 039    | 22 829    | 24 148    |
| Singapore                | 753       | 830       | 877       | 899       | 903       | 978       | 1 010     | 1 199     | 1 719     |
| Sri Lanka                | 4 905     | 6 434     | 4 707     | 4 614     | 7 046     | 5 626     | 5 878     | 8 655     | 8 432     |
| Tajikistan               | 16 312    | 16 900    | 16 803    | 17 312    | 18 573    | 19 348    | 19 348    | 19 348    | 19 879    |
| Thailand                 | 14 335    | 19 572    | 23 317    | 27 804    | 34 425    | 37 745    | 33 438    | 36 003    | 38 029    |
| Timor Leste              | 3         | 4         | 4         | 3         | 3         | 3         | 1         | 1         | 1         |
| Turkmenistan             | 3         | 3         | 3         | 3         | 3         | 3         | 3         | 3         | 3         |
| Uzbekistan               | 8 102     | 8 102     | 8 105     | 8 106     | 5 904     | 6 468     | 5 016     | 5 050     | 6 936     |
| Viet Nam                 | 61 173    | 57 132    | 65 021    | 88 527    | 85 933    | 73 107    | 85 824    | 110 196   | 134 633   |
| <b>C America + Carib</b> |           |           |           |           |           |           |           |           |           |
| Anguilla                 | 1         | 2         | 2         | 2         | 2         | 3         | 4         | 4         | 4         |
| Antigua Barb             | 1         | 5         | 5         | 6         | 10        | 14        | 17        | 22        | 23        |
| Aruba                    | 161       | 176       | 150       | 144       | 150       | 157       | 157       | 157       | 157       |
| Bahamas                  | 10        | 10        | 11        | 11        | 11        | 12        | 13        | 18        | 25        |
| Barbados                 | 10        | 14        | 14        | 24        | 26        | 39        | 64        | 88        | 108       |
| Belize                   | 354       | 358       | 376       | 403       | 388       | 247       | 522       | 297       | 420       |
| BES Islands              | 41        | 40        | 38        | 35        | 45        | 41        | 33        | 38        | 37        |
| Br Virgin Is             | 2         | 2         | 3         | 3         | 3         | 4         | 4         | 5         | 5         |
| Cayman Is                |           |           | 2         | 9         | 15        | 19        | 21        | 23        | 23        |
| Costa Rica               | 9 093     | 10 638    | 10 628    | 11 214    | 11 256    | 11 299    | 11 605    | 12 656    | 12 619    |
| Cuba                     | 779       | 803       | 812       | 788       | 760       | 909       | 953       | 953       | 792       |
| Curacao                  | 149       | 146       | 132       | 181       | 251       | 244       | 207       | 207       | 198       |
| Dominica                 | 32        | 25        | 37        | 28        | 25        | 21        | 20        | 21        | 23        |
| Dominican Rep            | 1 639     | 1 378     | 2 037     | 3 110     | 2 992     | 2 679     | 3 415     | 4 038     | 4 327     |
| El Salvador              | 3 790     | 3 538     | 3 659     | 4 151     | 4 240     | 4 407     | 5 447     | 6 111     | 6 017     |
| Grenada                  | 1         | 2         | 3         | 3         | 4         | 4         | 4         | 5         | 4         |
| Guadeloupe               | 320       | 314       | 315       | 361       | 365       | 383       | 397       | 563       | 571       |
| Guatemala                | 7 245     | 7 062     | 7 534     | 8 627     | 8 930     | 8 680     | 9 152     | 9 393     | 9 864     |
| Haiti                    | 93        | 86        | 74        | 131       | 202       | 205       | 205       | 205       | 205       |
| Honduras                 | 3 351     | 3 998     | 4 468     | 5 378     | 6 189     | 5 628     | 5 492     | 6 778     | 6 685     |
| Jamaica                  | 294       | 295       | 364       | 512       | 540       | 538       | 557       | 551       | 533       |
| Martinique               | 97        | 97        | 99        | 90        | 178       | 381       | 354       | 382       | 397       |
| Montserrat               |           |           |           |           |           | 0         | 2         | 2         | 2         |
| Nicaragua                | 2 397     | 2 295     | 2 399     | 2 538     | 2 744     | 2 613     | 2 659     | 2 928     | 2 828     |
| Panama                   | 5 284     | 6 729     | 7 342     | 8 064     | 6 844     | 6 255     | 8 457     | 9 597     | 9 747     |
| Puerto Rico              | 412       | 520       | 562       | 556       | 468       | 713       | 766       | 898       | 1 060     |
| St Barth                 |           |           | 0         | 0         | 0         | 0         | 0         | 0         | 0         |
| St Kitts Nevis           | 10        | 10        | 11        | 8         | 9         | 9         | 10        | 10        | 10        |
| St Lucia                 | 0         | 1         | 2         | 2         | 7         | 9         | 8         | 8         | 8         |
| St Martin                | 3         | 4         | 3         | 0         | 0         | 0         | 1         | 1         | 2         |
| St Vincent Gren          | 12        | 18        | 17        | 21        | 25        | 23        | 25        | 22        | 22        |
| Trinidad Tobago          | 6         | 6         | 6         | 6         | 6         | 6         | 6         | 6         | 6         |
| Turks Caicos             |           |           | 0         | 0         | 1         | 1         | 1         | 4         | 5         |
| US Virgin Is             | 7         | 14        | 14        | 7         | 14        | 14        | 14        | 17        | 18        |
| <b>Eurasia</b>           |           |           |           |           |           |           |           |           |           |
| Armenia                  | 1 997     | 2 209     | 2 353     | 2 272     | 2 340     | 2 398     | 1 837     | 2 367     | 3 372     |
| Azerbaijan               | 1 479     | 1 828     | 2 192     | 1 976     | 2 052     | 1 910     | 1 413     | 1 617     | 1 945     |
| Georgia                  | 8 335     | 8 454     | 9 339     | 9 299     | 10 035    | 9 020     | 8 345     | 10 289    | 10 889    |
| Russian Fed              | 177 046   | 169 804   | 186 358   | 187 103   | 193 468   | 197 729   | 217 240   | 221 119   | 208 607   |
| Türkiye                  | 52 632    | 83 661    | 90 248    | 87 239    | 97 771    | 132 264   | 128 348   | 118 555   | 137 830   |

**Total renewable energy**  
**Total énergies renouvelables**  
**Total energías renovables**

| PROD (GWh)            | 2014             | 2015             | 2016             | 2017             | 2018             | 2019             | 2020             | 2021             | 2022             |
|-----------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| <b>Europe</b>         | <b>1 135 678</b> | <b>1 173 945</b> | <b>1 195 661</b> | <b>1 210 688</b> | <b>1 297 811</b> | <b>1 330 914</b> | <b>1 451 255</b> | <b>1 470 362</b> | <b>1 461 749</b> |
| Albania               | 4 726            | 5 896            | 7 783            | 4 526            | 8 553            | 5 206            | 5 313            | 8 963            | 7 003            |
| Andorra               | 127              | 100              | 99               | 103              | 135              | 159              | 142              | 97               | 88               |
| Austria               | 50 186           | 47 582           | 51 082           | 51 055           | 50 054           | 54 634           | 55 424           | 52 754           | 50 432           |
| Belarus               | 255              | 281              | 392              | 754              | 774              | 1 013            | 1 347            | 1 298            | 1 276            |
| Belgium               | 12 219           | 14 461           | 14 260           | 15 810           | 17 189           | 19 484           | 23 466           | 22 725           | 24 436           |
| Bosnia Herzg          | 5 944            | 5 547            | 5 620            | 3 818            | 6 550            | 6 393            | 4 900            | 7 186            | 5 248            |
| Bulgaria              | 7 389            | 8 760            | 7 046            | 6 131            | 9 380            | 7 485            | 7 466            | 10 308           | 9 640            |
| Croatia               | 9 936            | 7 510            | 8 363            | 7 116            | 9 781            | 8 347            | 8 551            | 10 528           | 8 951            |
| Cyprus                | 317              | 400              | 425              | 435              | 477              | 515              | 597              | 775              | 884              |
| Czechia               | 9 172            | 9 421            | 9 385            | 9 627            | 9 431            | 10 056           | 10 352           | 10 645           | 10 767           |
| Denmark               | 17 984           | 18 937           | 18 390           | 21 798           | 20 759           | 23 073           | 23 447           | 26 098           | 28 518           |
| Estonia               | 1 392            | 1 566            | 1 588            | 1 859            | 1 989            | 2 143            | 2 971            | 2 879            | 2 856            |
| Faroë Islands         | 155              | 189              | 159              | 171              | 172              | 156              | 157              | 161              | 227              |
| Finland               | 26 271           | 30 527           | 30 412           | 31 475           | 32 139           | 31 883           | 35 927           | 38 174           | 38 668           |
| France                | 94 039           | 91 836           | 99 001           | 92 633           | 113 503          | 113 052          | 125 207          | 122 251          | 113 895          |
| Germany               | 162 526          | 188 785          | 189 672          | 216 323          | 222 075          | 240 332          | 251 481          | 233 638          | 251 087          |
| Greece                | 12 179           | 14 850           | 14 893           | 13 801           | 16 148           | 16 097           | 17 554           | 22 166           | 22 447           |
| Hungary               | 3 151            | 3 229            | 3 258            | 3 480            | 3 766            | 4 690            | 5 529            | 6 915            | 7 662            |
| Iceland               | 18 121           | 18 797           | 18 549           | 19 240           | 19 832           | 19 492           | 19 130           | 19 617           | 20 123           |
| Ireland               | 6 391            | 7 860            | 7 512            | 8 881            | 10 200           | 11 794           | 13 459           | 11 602           | 13 071           |
| Italy                 | 120 693          | 108 918          | 108 035          | 103 910          | 114 427          | 115 860          | 116 927          | 116 352          | 100 479          |
| Kosovo*               | 151              | 140              | 246              | 180              | 304              | 314              | 364              | 439              | 637              |
| Latvia                | 2 802            | 2 777            | 3 481            | 5 462            | 3 499            | 3 192            | 3 650            | 3 718            | 3 783            |
| Lithuania             | 1 511            | 1 678            | 2 095            | 2 538            | 2 205            | 2 469            | 2 575            | 2 622            | 3 027            |
| Luxembourg            | 398              | 431              | 457              | 600              | 683              | 797              | 976              | 990              | 1 011            |
| Malta                 | 75               | 102              | 136              | 172              | 199              | 202              | 243              | 263              | 297              |
| Moldova Rep           | 336              | 287              | 249              | 317              | 324              | 365              | 354              | 429              | 471              |
| Montenegro            | 1 752            | 1 491            | 1 843            | 1 121            | 2 256            | 1 929            | 1 766            | 2 333            | 1 772            |
| Netherlands           | 11 648           | 13 689           | 14 781           | 17 439           | 18 882           | 22 803           | 32 731           | 40 356           | 48 315           |
| North Macedonia       | 1 292            | 2 029            | 2 067            | 1 296            | 1 966            | 1 344            | 1 475            | 1 660            | 1 596            |
| Norway                | 137 952          | 140 083          | 145 180          | 145 519          | 143 123          | 131 174          | 152 040          | 156 059          | 143 461          |
| Poland                | 19 930           | 22 809           | 22 832           | 24 155           | 21 651           | 25 492           | 28 260           | 30 602           | 37 723           |
| Portugal              | 31 561           | 24 372           | 32 311           | 22 573           | 29 402           | 27 406           | 30 100           | 31 541           | 27 606           |
| Romania               | 27 127           | 26 201           | 26 969           | 24 282           | 26 195           | 24 635           | 24 607           | 26 344           | 23 609           |
| Serbia                | 11 043           | 10 127           | 10 874           | 9 303            | 10 920           | 10 521           | 10 238           | 12 676           | 10 010           |
| Slovakia              | 6 229            | 6 040            | 6 629            | 6 532            | 5 806            | 6 644            | 6 857            | 6 778            | 5 822            |
| Slovenia              | 6 611            | 4 354            | 5 058            | 4 448            | 5 233            | 5 040            | 5 583            | 5 449            | 4 069            |
| Spain                 | 110 269          | 97 090           | 104 652          | 87 944           | 103 905          | 100 988          | 113 783          | 125 747          | 122 960          |
| Sweden                | 85 741           | 102 497          | 89 127           | 95 058           | 91 153           | 98 933           | 112 143          | 115 737          | 118 227          |
| Switzerland           | 40 669           | 41 111           | 37 815           | 37 767           | 38 879           | 42 243           | 42 604           | 42 017           | 35 987           |
| UK                    | 64 522           | 83 367           | 82 989           | 98 879           | 110 131          | 119 728          | 134 425          | 122 338          | 135 159          |
| Ukraine               | 10 887           | 7 819            | 9 949            | 12 158           | 13 760           | 12 834           | 17 136           | 17 136           | 18 451           |
| <b>European Union</b> | <b>839 691</b>   | <b>858 718</b>   | <b>873 789</b>   | <b>877 604</b>   | <b>942 373</b>   | <b>980 264</b>   | <b>1 062 088</b> | <b>1 080 505</b> | <b>1 083 107</b> |
| <b>Middle East</b>    | <b>21 209</b>    | <b>20 090</b>    | <b>24 930</b>    | <b>23 614</b>    | <b>26 579</b>    | <b>50 627</b>    | <b>45 579</b>    | <b>40 528</b>    | <b>47 382</b>    |
| Bahrain               | 10               | 10               | 12               | 12               | 19               | 19               | 40               | 84               |                  |
| Iran IR               | 14 107           | 14 347           | 16 710           | 15 468           | 16 597           | 32 158           | 23 200           | 15 084           | 15 084           |
| Iraq                  | 2 990            | 2 606            | 3 431            | 2 236            | 2 197            | 5 342            | 4 541            | 3 725            | 3 030            |
| Israel                | 964              | 1 323            | 1 764            | 1 948            | 2 136            | 3 412            | 4 484            | 5 631            | 6 511            |
| Jordan                | 67               | 231              | 865              | 1 385            | 2 162            | 3 001            | 4 282            | 5 158            | 5 680            |
| Kuwait                | 3                | 5                | 49               | 51               | 55               | 62               | 60               | 214              | 1 901            |
| Lebanon               | 216              | 512              | 435              | 507              | 464              | 1 109            | 1 177            | 1 008            | 1 038            |
| Oman                  | 1                | 4                | 4                | 16               | 49               | 59               | 159              | 802              | 1 670            |
| Palestine             | 3                | 9                | 43               | 46               | 60               | 124              | 179              | 224              | 235              |
| Qatar                 | 108              | 126              | 131              | 137              | 143              | 126              | 143              | 143              | 143              |
| Saudi Arabia          | 46               | 46               | 46               | 70               | 219              | 266              | 834              | 891              | 2 839            |
| Syrian AR             | 2 375            | 448              | 964              | 789              | 791              | 793              | 809              | 847              | 891              |
| United Arab Em        | 307              | 306              | 322              | 750              | 1 204            | 3 663            | 5 194            | 6 262            | 7 766            |
| Yemen                 | 11               | 117              | 156              | 200              | 491              | 492              | 499              | 499              | 511              |
| <b>N America</b>      | <b>1 029 761</b> | <b>1 037 461</b> | <b>1 117 868</b> | <b>1 211 875</b> | <b>1 231 853</b> | <b>1 251 711</b> | <b>1 327 201</b> | <b>1 374 579</b> | <b>1 492 546</b> |
| Canada                | 415 802          | 421 115          | 431 229          | 440 737          | 433 830          | 429 140          | 436 362          | 435 027          | 449 266          |
| Greenland             | 409              | 436              | 414              | 401              | 432              | 424              | 445              | 447              | 479              |
| Mexico                | 52 893           | 47 471           | 49 149           | 52 563           | 54 414           | 55 112           | 63 006           | 72 831           | 83 570           |
| St Pierre Mq          | 0                |                  |                  |                  |                  |                  |                  |                  |                  |
| USA                   | 560 657          | 568 439          | 637 076          | 718 174          | 743 177          | 767 035          | 827 387          | 866 274          | 959 231          |

**Total renewable energy**  
**Total énergies renouvelables**  
**Total energías renovables**

| PROD (GWh)       | 2014           | 2015           | 2016           | 2017           | 2018           | 2019           | 2020           | 2021           | 2022           |
|------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| <b>Oceania</b>   | <b>73 351</b>  | <b>71 665</b>  | <b>76 765</b>  | <b>78 938</b>  | <b>84 305</b>  | <b>91 382</b>  | <b>98 130</b>  | <b>109 576</b> | <b>125 033</b> |
| Amer Samoa       | 2              | 2              | 6              | 8              | 8              | 7              | 7              | 6              | 4              |
| Australia        | 36 112         | 33 423         | 37 151         | 40 207         | 44 416         | 51 658         | 59 545         | 70 360         | 83 282         |
| Cook Is          | 1              | 3              | 5              | 6              | 10             | 10             | 9              | 7              | 7              |
| Fiji             | 490            | 487            | 554            | 570            | 665            | 669            | 682            | 657            | 726            |
| Fr Polynesia     | 194            | 199            | 217            | 212            | 202            | 200            | 203            | 192            | 242            |
| Guam             | 3              | 31             | 67             | 63             | 75             | 78             | 81             | 84             | 141            |
| Kiribati         | 1              | 4              | 4              | 5              | 5              | 6              | 6              | 6              | 6              |
| Marshall Is      | 1              | 1              | 2              | 2              | 2              | 2              | 2              | 2              | 2              |
| Micronesia       | 2              | 3              | 3              | 3              | 4              | 4              | 4              | 4              | 4              |
| Nauru            | 0              | 0              | 0              | 1              | 1              | 2              | 3              | 5              | 5              |
| New Caledon      | 351            | 409            | 289            | 434            | 409            | 458            | 504            | 654            | 808            |
| New Zealand      | 34 976         | 35 959         | 37 347         | 36 389         | 37 389         | 37 031         | 35 819         | 36 330         | 38 717         |
| Niue             | 0              | 0              | 0              | 0              | 0              | 0              | 0              | 0              | 0              |
| Palau            | 2              | 2              | 3              | 3              | 3              | 4              | 4              | 6              | 6              |
| Papua N Guin     | 1152           | 1 066          | 1 038          | 945            | 1 010          | 1 142          | 1 142          | 1 145          | 981            |
| Samoa            | 33             | 41             | 46             | 55             | 69             | 69             | 75             | 79             | 61             |
| Solomon Is       | 6              | 6              | 7              | 8              | 7              | 7              | 7              | 7              | 10             |
| Tokelau          | 1              | 2              | 2              | 2              | 2              | 2              | 2              | 2              | 2              |
| Tonga            | 4              | 5              | 5              | 6              | 7              | 9              | 11             | 9              | 8              |
| Tuvalu           | 0              | 1              | 2              | 2              | 2              | 2              | 2              | 2              | 2              |
| Vanuatu          | 18             | 20             | 16             | 17             | 19             | 23             | 23             | 20             | 19             |
| <b>S America</b> | <b>731 812</b> | <b>732 691</b> | <b>763 942</b> | <b>797 050</b> | <b>826 956</b> | <b>838 096</b> | <b>841 264</b> | <b>840 780</b> | <b>940 479</b> |
| Argentina        | 34 464         | 34 245         | 31 655         | 33 976         | 35 347         | 35 138         | 36 926         | 37 309         | 42 406         |
| Bolivia          | 2 389          | 2 681          | 1 937          | 2 467          | 2 967          | 3 725          | 3 583          | 4 162          | 4 172          |
| Brazil           | 432 746        | 431 173        | 465 836        | 467 042        | 495 316        | 515 481        | 522 981        | 507 669        | 594 028        |
| Chile            | 30 508         | 32 918         | 34 484         | 35 048         | 38 160         | 39 464         | 41 043         | 43 568         | 50 549         |
| Colombia         | 49 247         | 50 027         | 50 575         | 63 025         | 61 709         | 56 458         | 51 908         | 64 595         | 64 729         |
| Ecuador          | 11 954         | 13 639         | 16 446         | 20 658         | 21 224         | 25 218         | 24 910         | 26 077         | 25 124         |
| Falklands Malv   | 5              | 5              | 6              | 6              | 5              | 5              | 4              | 5              | 5              |
| Fr Guiana        | 569            | 564            | 504            | 631            | 603            | 478            | 510            | 688            | 694            |
| Guyana           | 84             | 70             | 89             | 91             | 94             | 86             | 89             | 89             | 91             |
| Paraguay         | 55 415         | 55 889         | 63 940         | 59 824         | 59 344         | 49 586         | 46 627         | 40 848         | 44 123         |
| Peru             | 21 891         | 24 916         | 22 731         | 30 796         | 33 300         | 34 333         | 33 713         | 35 167         | 33 106         |
| South Georgia    | 1              | 1              | 1              | 0              | 1              | 1              | 1              | 1              | 1              |
| Suriname         | 568            | 484            | 798            | 942            | 1 018          | 970            | 692            | 866            | 866            |
| Uruguay          | 11 481         | 11 090         | 11 871         | 12 399         | 12 532         | 14 292         | 11 059         | 11 863         | 12 050         |
| Venezuela        | 80 490         | 74 990         | 63 069         | 70 144         | 65 337         | 62 858         | 67 219         | 67 874         | 68 537         |

# Hydropower

## Hydroélectricité

## Hidroeléctrica

| CAP (MW)       | 2014             | 2015             | 2016             | 2017             | 2018             | 2019             | 2020             | 2021             | 2022             | 2023             |
|----------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| <b>World</b>   | <b>1 176 805</b> | <b>1 211 410</b> | <b>1 247 040</b> | <b>1 270 901</b> | <b>1 294 150</b> | <b>1 313 093</b> | <b>1 335 185</b> | <b>1 362 416</b> | <b>1 394 824</b> | <b>1 406 863</b> |
| <b>Africa</b>  | <b>28 592</b>    | <b>29 102</b>    | <b>31 029</b>    | <b>34 119</b>    | <b>35 484</b>    | <b>36 189</b>    | <b>37 048</b>    | <b>37 529</b>    | <b>39 275</b>    | <b>40 280</b>    |
| Algeria        | 228              | 228              | 228              | 228              | 228              | 228              | 209              | 129              | 129              | 129              |
| Angola         | 969              | 969              | 1 700            | 2 393            | 3 061            | 3 395            | 3 729            | 3 729            | 3 729            | 3 729            |
| Benin          | 1                | 1                | 1                | 1                | 1                | 1                | 1                | 1                | 1                | 1                |
| Burkina Faso   | 32               | 35               | 35               | 35               | 35               | 35               | 35               | 35               | 35               | 37               |
| Burundi        | 51               | 51               | 51               | 48               | 48               | 48               | 48               | 63               | 63               | 63               |
| Cameroon       | 732              | 732              | 732              | 732              | 732              | 813              | 813              | 814              | 814              | 814              |
| Cent Afr Rep   | 19               | 19               | 19               | 19               | 19               | 19               | 19               | 19               | 19               | 19               |
| Comoros        | 1                | 1                | 1                | 1                | 1                | 1                | 1                | 1                | 1                | 1                |
| Congo DR       | 2 417            | 2 417            | 2 429            | 2 440            | 2 598            | 2 608            | 2 608            | 2 608            | 2 932            | 3 172            |
| Congo Rep      | 194              | 194              | 201              | 214              | 214              | 214              | 214              | 214              | 214              | 214              |
| Cote d'Ivoire  | 604              | 604              | 604              | 879              | 879              | 879              | 879              | 879              | 879              | 879              |
| Egypt          | 2 800            | 2 800            | 2 800            | 2 800            | 2 832            | 2 832            | 2 832            | 2 832            | 2 832            | 2 832            |
| Eq Guinea      | 126              | 126              | 126              | 126              | 127              | 127              | 127              | 127              | 127              | 127              |
| Eswatini       | 62               | 62               | 62               | 62               | 62               | 62               | 62               | 62               | 62               | 62               |
| Ethiopia       | 1 972            | 2 159            | 2 159            | 3 817            | 3 817            | 3 817            | 4 071            | 4 071            | 4 821            | 4 883            |
| Gabon          | 331              | 331              | 331              | 331              | 331              | 331              | 331              | 331              | 331              | 331              |
| Ghana          | 1 580            | 1 584            | 1 584            | 1 584            | 1 584            | 1 584            | 1 584            | 1 584            | 1 584            | 1 584            |
| Guinea         | 129              | 369              | 369              | 369              | 369              | 364              | 589              | 814              | 814              | 814              |
| Kenya          | 828              | 827              | 830              | 841              | 845              | 852              | 854              | 858              | 858              | 859              |
| Lesotho        | 74               | 74               | 74               | 74               | 74               | 74               | 74               | 74               | 74               | 74               |
| Liberia        | 5                | 5                | 27               | 93               | 93               | 93               | 93               | 93               | 93               | 93               |
| Madagascar     | 163              | 164              | 164              | 164              | 164              | 164              | 164              | 164              | 192              | 193              |
| Malawi         | 372              | 372              | 373              | 373              | 373              | 373              | 373              | 393              | 393              | 393              |
| Mali           | 315              | 315              | 315              | 315              | 315              | 315              | 315              | 315              | 455              | 455              |
| Mauritius      | 61               | 61               | 61               | 61               | 61               | 61               | 61               | 61               | 61               | 61               |
| Morocco        | 1 770            | 1 770            | 1 770            | 1 770            | 1 770            | 1 770            | 1 770            | 1 770            | 1 770            | 1 770            |
| Mozambique     | 2 191            | 2 192            | 2 193            | 2 193            | 2 193            | 2 193            | 2 194            | 2 194            | 2 194            | 2 194            |
| Namibia        | 330              | 330              | 347              | 347              | 347              | 347              | 351              | 351              | 351              | 351              |
| Nigeria        | 2 110            | 2 111            | 2 111            | 2 111            | 2 111            | 2 111            | 2 151            | 2 151            | 2 151            | 2 851            |
| Reunion        | 134              | 134              | 133              | 133              | 133              | 133              | 133              | 134              | 134              | 134              |
| Rwanda         | 66               | 94               | 98               | 98               | 98               | 109              | 119              | 119              | 124              | 124              |
| Sao Tome Prn   | 2                | 2                | 2                | 2                | 2                | 2                | 2                | 2                | 2                | 2                |
| Sierra Leone   | 56               | 56               | 56               | 61               | 61               | 61               | 61               | 61               | 61               | 61               |
| South Africa   | 2 133            | 2 148            | 3 147            | 3 480            | 3 480            | 3 480            | 3 480            | 3 484            | 3 484            | 3 484            |
| Sudan          | 1 322            | 1 322            | 1 322            | 1 322            | 1 482            | 1 482            | 1 482            | 1 482            | 1 482            | 1 482            |
| Tanzania       | 572              | 579              | 587              | 589              | 589              | 596              | 598              | 599              | 599              | 599              |
| Togo           | 67               | 67               | 67               | 67               | 67               | 67               | 67               | 67               | 67               | 67               |
| Tunisia        | 62               | 62               | 62               | 62               | 66               | 66               | 66               | 66               | 66               | 66               |
| Uganda         | 695              | 695              | 695              | 707              | 744              | 1 004            | 1 011            | 1 011            | 1 033            | 1 033            |
| Zambia         | 2 259            | 2 268            | 2 388            | 2 398            | 2 398            | 2 399            | 2 400            | 2 706            | 3 165            | 3 165            |
| Zimbabwe       | 757              | 772              | 776              | 780              | 1 080            | 1 080            | 1 080            | 1 080            | 1 080            | 1 080            |
| <b>Asia</b>    | <b>480 524</b>   | <b>500 833</b>   | <b>516 836</b>   | <b>531 089</b>   | <b>543 969</b>   | <b>555 031</b>   | <b>570 511</b>   | <b>594 325</b>   | <b>620 391</b>   | <b>630 030</b>   |
| Afghanistan    | 280              | 284              | 329              | 349              | 349              | 349              | 349              | 357              | 459              | 459              |
| Bangladesh     | 230              | 230              | 230              | 230              | 230              | 230              | 230              | 230              | 230              | 230              |
| Bhutan         | 1 488            | 1 614            | 1 614            | 1 614            | 1 614            | 2 334            | 2 334            | 2 334            | 2 334            | 2 334            |
| Cambodia       | 929              | 930              | 930              | 980              | 1 330            | 1 330            | 1 330            | 1 330            | 1 676            | 1 791            |
| China          | 304 860          | 319 530          | 332 070          | 343 775          | 352 261          | 358 040          | 370 160          | 390 920          | 413 500          | 421 540          |
| China HK SAR   | 1                | 1                | 1                | 1                | 1                | 1                | 1                | 1                | 1                | 1                |
| Chinese Taipei | 4 683            | 4 691            | 4 691            | 4 691            | 4 694            | 4 695            | 4 695            | 4 696            | 4 700            | 4 706            |
| India          | 45 406           | 47 105           | 47 622           | 49 521           | 50 102           | 50 279           | 50 763           | 51 566           | 52 009           | 52 122           |
| Indonesia      | 5 243            | 5 322            | 5 666            | 5 703            | 5 772            | 5 976            | 6 121            | 6 602            | 6 689            | 6 570            |
| Japan          | 49 597           | 50 035           | 50 058           | 50 015           | 50 037           | 50 033           | 50 033           | 49 929           | 50 008           | 50 026           |
| Kazakhstan     | 2 675            | 2 678            | 2 696            | 2 726            | 2 756            | 2 778            | 2 785            | 2 807            | 2 807            | 2 903            |
| Korea DPR      | 4 293            | 4 467            | 4 701            | 4 761            | 4 790            | 4 790            | 4 865            | 4 865            | 4 890            | 4 890            |
| Korea Rep      | 6 469            | 6 472            | 6 490            | 6 494            | 6 498            | 6 509            | 6 507            | 6 521            | 6 513            | 6 505            |
| Kyrgyzstan     | 3 671            | 3 677            | 3 677            | 3 689            | 3 673            | 3 673            | 3 674            | 2 780            | 2 780            | 3 210            |
| Lao PDR        | 3 292            | 4 393            | 4 869            | 5 102            | 5 380            | 6 224            | 8 013            | 8 956            | 9 646            | 9 756            |
| Malaysia       | 4 761            | 5 742            | 6 121            | 6 145            | 6 165            | 6 185            | 6 197            | 6 215            | 6 215            | 6 215            |
| Mongolia       | 29               | 29               | 31               | 31               | 31               | 31               | 29               | 29               | 29               | 29               |
| Myanmar        | 3 188            | 3 190            | 3 262            | 3 262            | 3 269            | 3 269            | 3 269            | 3 269            | 3 269            | 3 269            |
| Nepal          | 737              | 791              | 811              | 916              | 1 038            | 1 159            | 1 282            | 1 973            | 2 199            | 2 677            |
| Pakistan       | 7 220            | 7 221            | 7 254            | 7 406            | 9 906            | 9 925            | 10 045           | 10 045           | 10 636           | 10 636           |
| Philippines    | 3 594            | 3 613            | 3 623            | 3 632            | 3 719            | 3 761            | 3 780            | 3 783            | 3 773            | 3 830            |
| Sri Lanka      | 1 669            | 1 688            | 1 726            | 1 745            | 1 797            | 1 813            | 1 797            | 1 801            | 1 831            | 1 843            |
| Tajikistan     | 4 983            | 4 983            | 4 983            | 4 984            | 4 984            | 5 744            | 5 744            | 5 745            | 5 763            | 5 763            |
| Thailand       | 3 608            | 3 639            | 3 649            | 3 649            | 3 667            | 3 667            | 3 670            | 3 670            | 3 670            | 3 670            |
| Timor Leste    | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                |
| Turkmenistan   | 1                | 1                | 1                | 1                | 1                | 1                | 1                | 2                | 2                | 2                |
| Uzbekistan     | 1 871            | 1 880            | 1 880            | 1 858            | 1 915            | 1 908            | 2 021            | 2 052            | 2 225            | 2 415            |
| Viet Nam       | 15 745           | 16 628           | 17 849           | 17 809           | 17 989           | 20 326           | 20 817           | 21 847           | 22 535           | 22 639           |

**Hydropower**  
**Hydroélectricité**  
**Hidroeléctrica**

| CAP (MW)                 | 2014           | 2015           | 2016           | 2017           | 2018           | 2019           | 2020           | 2021           | 2022           | 2023           |
|--------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| <b>C America + Carib</b> | <b>6 578</b>   | <b>6 957</b>   | <b>7 608</b>   | <b>7 755</b>   | <b>8 040</b>   | <b>8 154</b>   | <b>8 271</b>   | <b>8 324</b>   | <b>8 372</b>   | <b>8 418</b>   |
| Belize                   | 55             | 55             | 55             | 55             | 55             | 55             | 55             | 55             | 55             | 55             |
| Costa Rica               | 1 835          | 1 936          | 2 329          | 2 329          | 2 373          | 2 344          | 2 332          | 2 379          | 2 331          | 2 372          |
| Cuba                     | 63             | 63             | 66             | 66             | 64             | 66             | 67             | 67             | 67             | 67             |
| Dominica                 | 7              | 7              | 7              | 7              | 7              | 7              | 7              | 7              | 7              | 7              |
| Dominican Rep            | 593            | 613            | 613            | 614            | 616            | 625            | 625            | 625            | 624            | 624            |
| El Salvador              | 490            | 497            | 495            | 575            | 575            | 576            | 575            | 573            | 573            | 573            |
| Guadeloupe               | 9              | 9              | 9              | 11             | 11             | 11             | 11             | 11             | 11             | 11             |
| Guatemala                | 1 013          | 1 087          | 1 392          | 1 438          | 1 502          | 1 574          | 1 577          | 1 572          | 1 573          | 1 574          |
| Haiti                    | 56             | 56             | 56             | 56             | 78             | 78             | 78             | 78             | 78             | 78             |
| Honduras                 | 629            | 638            | 677            | 682            | 713            | 736            | 844            | 856            | 916            | 916            |
| Jamaica                  | 30             | 30             | 30             | 30             | 30             | 30             | 30             | 30             | 30             | 30             |
| Martinique               |                |                |                |                | 0              | 0              |                |                |                |                |
| Nicaragua                | 120            | 138            | 142            | 142            | 142            | 157            | 157            | 158            | 159            | 160            |
| Panama                   | 1 574          | 1 725          | 1 632          | 1 647          | 1 770          | 1 791          | 1 810          | 1 810          | 1 845          | 1 847          |
| Puerto Rico              | 98             | 98             | 98             | 98             | 98             | 98             | 98             | 98             | 98             | 98             |
| St Vincent Gren          | 6              | 6              | 6              | 6              | 6              | 6              | 6              | 6              | 6              | 6              |
| <b>Eurasia</b>           | <b>80 151</b>  | <b>82 535</b>  | <b>83 724</b>  | <b>84 521</b>  | <b>85 773</b>  | <b>86 583</b>  | <b>89 420</b>  | <b>90 103</b>  | <b>90 212</b>  | <b>89 812</b>  |
| Armenia                  | 1 298          | 1 287          | 1 312          | 1 327          | 1 336          | 1 340          | 1 350          | 1 345          | 1 345          | 1 358          |
| Azerbaijan               | 1 078          | 1 103          | 1 105          | 1 106          | 1 131          | 1 145          | 1 149          | 1 157          | 1 165          | 1 302          |
| Georgia                  | 2 800          | 2 802          | 3 160          | 3 113          | 3 220          | 3 300          | 3 323          | 3 354          | 3 376          | 3 446          |
| Russian Fed              | 51 332         | 51 475         | 51 466         | 51 702         | 51 795         | 52 295         | 52 614         | 52 754         | 52 754         | 51 927         |
| Türkiye                  | 23 643         | 25 868         | 26 681         | 27 273         | 28 291         | 28 503         | 30 984         | 31 493         | 31 571         | 31 779         |
| <b>Europe</b>            | <b>211 825</b> | <b>214 429</b> | <b>217 976</b> | <b>219 572</b> | <b>220 614</b> | <b>221 543</b> | <b>223 074</b> | <b>224 212</b> | <b>225 804</b> | <b>225 728</b> |
| Albania                  | 1 725          | 1 798          | 1 913          | 2 047          | 2 105          | 2 162          | 2 387          | 2 507          | 2 493          | 2 493          |
| Andorra                  | 46             | 46             | 46             | 46             | 46             | 46             | 46             | 46             | 46             | 46             |
| Austria                  | 13 532         | 13 650         | 14 116         | 14 150         | 14 516         | 14 597         | 14 635         | 14 748         | 14 923         | 14 708         |
| Belarus                  | 33             | 34             | 74             | 95             | 95             | 95             | 96             | 96             | 96             | 97             |
| Belgium                  | 1 428          | 1 419          | 1 416          | 1 414          | 1 415          | 1 411          | 1 413          | 1 418          | 1 430          | 1 430          |
| Bosnia Herzg             | 2 131          | 2 137          | 2 180          | 2 211          | 2 236          | 2 239          | 2 249          | 2 257          | 2 258          | 2 258          |
| Bulgaria                 | 3 219          | 3 219          | 3 223          | 3 372          | 3 379          | 3 378          | 3 376          | 3 369          | 3 390          | 3 390          |
| Croatia                  | 2 180          | 2 195          | 2 192          | 2 193          | 2 200          | 2 200          | 2 200          | 2 201          | 2 206          | 2 206          |
| Czechia                  | 2 252          | 2 260          | 2 262          | 2 265          | 2 264          | 2 265          | 2 265          | 2 285          | 2 285          | 2 286          |
| Denmark                  | 9              | 7              | 9              | 7              | 7              | 7              | 7              | 7              | 7              | 7              |
| Estonia                  | 5              | 6              | 6              | 7              | 7              | 6              | 8              | 6              | 8              | 8              |
| Faroe Islands            | 39             | 39             | 39             | 39             | 40             | 40             | 40             | 40             | 40             | 40             |
| Finland                  | 3 132          | 3 133          | 3 133          | 3 156          | 3 152          | 3 157          | 3 164          | 3 171          | 3 171          | 3 177          |
| France                   | 25 526         | 25 552         | 25 621         | 25 707         | 25 727         | 25 868         | 25 954         | 25 991         | 25 964         | 25 881         |
| Germany                  | 11 234         | 11 255         | 11 207         | 11 120         | 10 684         | 10 733         | 10 808         | 10 844         | 10 974         | 11 164         |
| Greece                   | 3 389          | 3 392          | 3 392          | 3 392          | 3 409          | 3 412          | 3 417          | 3 421          | 3 421          | 3 427          |
| Hungary                  | 57             | 57             | 57             | 57             | 57             | 58             | 58             | 60             | 60             | 60             |
| Iceland                  | 1 984          | 1 987          | 1 987          | 1 995          | 2 099          | 2 104          | 2 114          | 2 114          | 2 114          | 2 114          |
| Ireland                  | 529            | 529            | 529            | 529            | 529            | 529            | 529            | 529            | 529            | 529            |
| Italy                    | 22 098         | 22 220         | 22 298         | 22 426         | 22 499         | 22 541         | 22 695         | 22 750         | 22 861         | 22 887         |
| Kosovo*                  | 43             | 43             | 78             | 80             | 80             | 95             | 110            | 110            | 110            | 110            |
| Latvia                   | 1 588          | 1 588          | 1 564          | 1 564          | 1 565          | 1 587          | 1 586          | 1 587          | 1 588          | 1 567          |
| Lithuania                | 877            | 877            | 877            | 877            | 877            | 877            | 877            | 877            | 877            | 878            |
| Luxembourg               | 1 330          | 1 330          | 1 330          | 1 331          | 1 330          | 1 330          | 1 331          | 1 331          | 1 330          | 1 330          |
| Moldova Rep              | 64             | 64             | 64             | 64             | 64             | 64             | 64             | 64             | 64             | 64             |
| Montenegro               | 653            | 662            | 668            | 675            | 676            | 676            | 697            | 697            | 697            | 697            |
| Netherlands              | 37             | 37             | 37             | 37             | 37             | 37             | 37             | 38             | 38             | 38             |
| North Macedonia          | 630            | 658            | 661            | 671            | 674            | 678            | 687            | 689            | 696            | 696            |
| Norway                   | 31 240         | 31 372         | 31 817         | 31 912         | 32 530         | 32 797         | 33 732         | 34 075         | 34 269         | 34 401         |
| Poland                   | 2 364          | 2 370          | 2 385          | 2 390          | 2 391          | 2 397          | 2 400          | 2 398          | 2 407          | 2 406          |
| Portugal                 | 5 715          | 6 168          | 6 960          | 7 226          | 7 236          | 7 262          | 7 241          | 7 255          | 8 189          | 8 188          |
| Romania                  | 6 613          | 6 730          | 6 734          | 6 692          | 6 701          | 6 686          | 6 652          | 6 662          | 6 663          | 6 666          |
| Serbia                   | 3 017          | 3 022          | 3 030          | 3 038          | 3 043          | 3 074          | 3 082          | 3 085          | 3 107          | 3 108          |
| Slovakia                 | 2 523          | 2 522          | 2 524          | 2 523          | 2 528          | 2 527          | 2 529          | 2 531          | 2 532          | 2 532          |
| Slovenia                 | 1 296          | 1 295          | 1 293          | 1 347          | 1 343          | 1 351          | 1 352          | 1 352          | 1 346          | 1 342          |
| Spain                    | 19 223         | 20 053         | 20 080         | 20 079         | 20 080         | 20 114         | 20 117         | 20 132         | 20 137         | 20 140         |
| Sweden                   | 15 996         | 16 329         | 16 466         | 16 502         | 16 431         | 16 462         | 16 406         | 16 407         | 16 399         | 16 399         |
| Switzerland              | 13 744         | 13 815         | 14 806         | 15 353         | 15 542         | 15 574         | 15 594         | 15 611         | 15 627         | 15 841         |
| UK                       | 4 473          | 4 677          | 4 733          | 4 770          | 4 777          | 4 780          | 4 785          | 4 790          | 4 790          | 4 791          |
| Ukraine                  | 5 851          | 5 883          | 6 167          | 6 213          | 6 243          | 6 325          | 6 334          | 6 662          | 6 662          | 6 327          |
| <b>European Union</b>    | <b>146 415</b> | <b>148 455</b> | <b>149 974</b> | <b>150 626</b> | <b>150 628</b> | <b>151 057</b> | <b>151 321</b> | <b>151 634</b> | <b>152 998</b> | <b>152 910</b> |

**Hydropower**  
**Hydroélectricité**  
**Hidroeléctrica**

| CAP (MW)           | 2014           | 2015           | 2016           | 2017           | 2018           | 2019           | 2020           | 2021           | 2022           | 2023           |
|--------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| <b>Middle East</b> | <b>15 094</b>  | <b>15 665</b>  | <b>15 881</b>  | <b>15 535</b>  | <b>15 681</b>  | <b>15 764</b>  | <b>16 074</b>  | <b>16 072</b>  | <b>16 422</b>  | <b>16 598</b>  |
| Iran IR            | 10 785         | 11 278         | 11 578         | 11 953         | 12 099         | 12 182         | 12 193         | 12 193         | 12 543         | 12 719         |
| Iraq               | 2 514          | 2 514          | 2 514          | 1 797          | 1 797          | 1 797          | 1 797          | 1 797          | 1 797          | 1 797          |
| Israel             | 7              | 7              | 7              | 7              | 7              | 7              | 306            | 306            | 306            | 306            |
| Jordan             | 12             | 12             | 6              | 6              | 6              | 6              | 6              | 4              | 4              | 4              |
| Lebanon            | 282            | 282            | 282            | 282            | 282            | 282            | 282            | 282            | 282            | 282            |
| Syrian AR          | 1 494          | 1 572          | 1 494          | 1 490          | 1 490          | 1 490          | 1 490          | 1 490          | 1 490          | 1 490          |
| <b>N America</b>   | <b>190 300</b> | <b>194 080</b> | <b>195 823</b> | <b>196 402</b> | <b>197 250</b> | <b>197 552</b> | <b>197 964</b> | <b>198 861</b> | <b>199 581</b> | <b>199 492</b> |
| Canada             | 75 474         | 79 405         | 80 304         | 80 831         | 81 570         | 81 570         | 81 383         | 82 307         | 83 312         | 83 312         |
| Greenland          | 91             | 91             | 91             | 91             | 91             | 91             | 91             | 91             | 91             | 91             |
| Mexico             | 12 464         | 12 223         | 12 580         | 12 628         | 12 628         | 13 076         | 13 301         | 13 303         | 12 838         | 12 838         |
| USA                | 102 270        | 102 360        | 102 848        | 102 851        | 102 961        | 102 815        | 103 188        | 103 159        | 103 340        | 103 250        |
| <b>Oceania</b>     | <b>14 221</b>  | <b>14 239</b>  | <b>14 239</b>  | <b>14 243</b>  | <b>14 496</b>  | <b>14 506</b>  | <b>14 509</b>  | <b>14 509</b>  | <b>14 749</b>  | <b>15 542</b>  |
| Australia          | 8 271          | 8 271          | 8 271          | 8 271          | 8 523          | 8 523          | 8 523          | 8 523          | 8 523          | 9 250          |
| Fiji               | 138            | 138            | 138            | 138            | 138            | 138            | 138            | 138            | 138            | 138            |
| Fr Polynesia       | 47             | 47             | 47             | 48             | 48             | 49             | 49             | 49             | 49             | 49             |
| Micronesia         | 1              | 1              | 1              | 1              | 1              | 1              | 1              | 1              | 1              | 1              |
| New Caledon        | 78             | 78             | 78             | 78             | 78             | 78             | 81             | 81             | 81             | 81             |
| New Zealand        | 5 435          | 5 435          | 5 435          | 5 435          | 5 435          | 5 443          | 5 443          | 5 443          | 5 680          | 5 680          |
| Papua N Guin       | 240            | 258            | 258            | 258            | 258            | 258            | 258            | 258            | 261            | 327            |
| Samoa              | 9              | 9              | 9              | 13             | 13             | 14             | 14             | 14             | 14             | 14             |
| Solomon Is         | 0              | 0              | 0              | 0              | 0              | 0              | 0              | 0              | 0              | 0              |
| Vanuatu            | 1              | 1              | 1              | 1              | 1              | 1              | 1              | 1              | 1              | 2              |
| <b>S America</b>   | <b>149 520</b> | <b>153 571</b> | <b>163 925</b> | <b>167 665</b> | <b>172 844</b> | <b>177 772</b> | <b>178 313</b> | <b>178 482</b> | <b>180 018</b> | <b>180 962</b> |
| Argentina          | 11 112         | 11 114         | 11 176         | 11 249         | 11 294         | 11 316         | 11 350         | 11 351         | 11 364         | 11 364         |
| Bolivia            | 483            | 484            | 484            | 602            | 735            | 735            | 736            | 736            | 736            | 736            |
| Brazil             | 89 194         | 91 655         | 96 934         | 100 339        | 104 496        | 109 162        | 109 345        | 109 458        | 109 802        | 109 903        |
| Chile              | 6 411          | 6 492          | 6 625          | 6 645          | 6 634          | 6 679          | 6 934          | 6 807          | 7 289          | 7 473          |
| Colombia           | 10 900         | 11 501         | 11 611         | 11 731         | 11 842         | 11 926         | 11 954         | 11 949         | 12 553         | 13 211         |
| Ecuador            | 2 248          | 2 408          | 4 446          | 4 516          | 5 066          | 5 076          | 5 098          | 5 099          | 5 191          | 5 192          |
| Fr Guiana          | 120            | 120            | 120            | 120            | 120            | 120            | 120            | 120            | 120            | 120            |
| Guyana             | 2              | 2              | 2              | 2              | 2              | 2              | 2              | 2              | 2              | 2              |
| Paraguay           | 8 800          | 8 800          | 8 800          | 8 800          | 8 800          | 8 824          | 8 824          | 8 824          | 8 824          | 8 824          |
| Peru               | 3 651          | 4 139          | 5 179          | 5 113          | 5 230          | 5 387          | 5 406          | 5 503          | 5 504          | 5 504          |
| South Georgia      | 0              | 0              | 0              | 0              | 0              | 0              | 0              | 0              | 0              | 0              |
| Suriname           | 180            | 180            | 180            | 180            | 180            | 180            | 180            | 180            | 180            | 180            |
| Uruguay            | 1 538          | 1 538          | 1 538          | 1 538          | 1 538          | 1 538          | 1 538          | 1 538          | 1 538          | 1 538          |
| Venezuela          | 14 881         | 15 138         | 16 829         | 16 829         | 16 906         | 16 826         | 16 826         | 16 914         | 16 914         | 16 914         |

# Hydropower

## Hydroélectricité

## Hidroeléctrica

| PROD (GWh)     | 2014             | 2015             | 2016             | 2017             | 2018             | 2019             | 2020             | 2021             | 2022             |
|----------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| <b>World</b>   | <b>3 985 424</b> | <b>3 989 023</b> | <b>4 151 870</b> | <b>4 208 719</b> | <b>4 325 950</b> | <b>4 367 547</b> | <b>4 489 161</b> | <b>4 421 122</b> | <b>4 471 452</b> |
| <b>Africa</b>  | <b>125 730</b>   | <b>124 670</b>   | <b>121 852</b>   | <b>130 129</b>   | <b>140 282</b>   | <b>147 444</b>   | <b>153 595</b>   | <b>160 709</b>   | <b>165 506</b>   |
| Algeria        | 193              | 145              | 72               | 56               | 117              | 152              | 50               | 9                | 16               |
| Angola         | 5 040            | 5 040            | 6 286            | 8 844            | 11 323           | 12 562           | 13 802           | 13 802           | 13 802           |
| Benin          |                  | 1                |                  | 0                | 0                | 0                | 0                | 0                | 0                |
| Burkina Faso   | 90               | 93               | 139              | 128              | 91               | 105              | 112              | 127              | 82               |
| Burundi        | 180              | 173              | 175              | 182              | 240              | 264              | 270              | 256              | 256              |
| Cameroon       | 4 373            | 4 373            | 4 359            | 4 753            | 5 033            | 5 026            | 5 233            | 5 233            | 5 233            |
| Cent Afr Rep   | 140              | 138              | 131              | 141              | 141              | 141              | 141              | 141              | 141              |
| Comoros        | 5                |                  |                  |                  |                  |                  |                  |                  |                  |
| Congo DR       | 8 720            | 8 767            | 8 828            | 9 406            | 10 517           | 11 497           | 12 564           | 13 242           | 13 303           |
| Congo Rep      | 1 058            | 1 098            | 1 132            | 1 203            | 1 046            | 1 046            | 1 046            | 1 046            | 1 046            |
| Cote d'Ivoire  | 1 914            | 1 353            | 1 529            | 2 047            | 2 962            | 3 481            | 3 376            | 2 627            | 2 864            |
| Egypt          | 13 352           | 13 822           | 13 545           | 12 850           | 12 726           | 13 121           | 15 038           | 14 646           | 15 458           |
| Eq Guinea      | 127              | 127              | 127              | 127              | 127              | 127              | 127              | 127              | 127              |
| Eswatini       | 290              | 252              | 154              | 124              | 189              | 225              | 231              | 259              | 297              |
| Ethiopia       | 6 823            | 9 019            | 9 674            | 11 753           | 12 681           | 13 655           | 14 404           | 14 943           | 14 882           |
| Gabon          | 795              | 919              | 822              | 915              | 982              | 982              | 982              | 982              | 982              |
| Ghana          | 8 387            | 5 844            | 5 561            | 5 616            | 6 017            | 7 252            | 7 293            | 7 521            | 8 192            |
| Guinea         | 435              | 887              | 1 084            | 1 212            | 1 191            | 1 289            | 1 493            | 2 645            | 2 947            |
| Kenya          | 3 680            | 3 601            | 3 629            | 3 373            | 3 574            | 3 808            | 4 021            | 3 861            | 3 100            |
| Lesotho        | 521              | 533              | 511              | 502              | 516              | 392              | 426              | 531              | 480              |
| Liberia        | 25               | 25               | 25               | 128              | 128              | 128              | 128              | 128              | 128              |
| Madagascar     | 833              | 965              | 917              | 815              | 1 000            | 920              | 850              | 800              | 855              |
| Malawi         | 1 964            | 1 954            | 1 894            | 1 586            | 1 425            | 1 675            | 1 676            | 1 694            | 1 694            |
| Mali           | 1 498            | 1 529            | 1 645            | 1 702            | 1 702            | 1 702            | 1 702            | 1 702            | 1 702            |
| Mauritius      | 92               | 123              | 101              | 91               | 126              | 100              | 117              | 108              | 130              |
| Morocco        | 2 033            | 2 282            | 1 662            | 1 565            | 1 998            | 1 654            | 1 290            | 1 213            | 679              |
| Mozambique     | 16 187           | 17 091           | 15 615           | 14 067           | 13 910           | 14 829           | 15 714           | 15 477           | 16 184           |
| Namibia        | 1 494            | 1 431            | 1 477            | 1 370            | 1 049            | 1 230            | 1 237            | 875              | 1 052            |
| Nigeria        | 6 144            | 6 423            | 8 150            | 7 747            | 7 695            | 8 433            | 7 872            | 9 154            | 9 235            |
| Reunion        | 426              | 496              | 465              | 422              | 601              | 418              | 423              | 358              | 634              |
| Rwanda         | 296              | 330              | 331              | 309              | 336              | 400              | 522              | 557              | 516              |
| Sao Tome Prn   | 8                | 7                | 6                | 5                | 5                | 6                | 6                | 6                | 6                |
| Sierra Leone   | 179              | 189              | 219              | 228              | 228              | 228              | 228              | 228              | 228              |
| South Africa   | 3 968            | 3 716            | 3 827            | 4 880            | 5 532            | 5 737            | 6 095            | 6 560            | 7 975            |
| Sudan          | 8 913            | 8 420            | 8 051            | 9 347            | 9 657            | 10 210           | 11 008           | 10 061           | 10 061           |
| Tanzania       | 2 631            | 2 162            | 2 442            | 2 430            | 2 314            | 2 561            | 3 229            | 3 231            | 3 232            |
| Togo           | 120              | 56               | 204              | 204              | 100              | 125              | 75               | 86               | 18               |
| Tunisia        | 56               | 70               | 45               | 17               | 17               | 66               | 46               | 28               | 15               |
| Uganda         | 3 248            | 3 103            | 3 237            | 3 386            | 3 583            | 3 984            | 4 006            | 4 279            | 4 848            |
| Zambia         | 14 044           | 13 063           | 11 087           | 12 514           | 13 765           | 12 404           | 12 879           | 16 147           | 17 130           |
| Zimbabwe       | 5 466            | 5 047            | 2 692            | 4 085            | 5 635            | 5 509            | 3 881            | 6 018            | 5 974            |
| <b>Asia</b>    | <b>1 548 260</b> | <b>1 606 558</b> | <b>1 692 805</b> | <b>1 742 162</b> | <b>1 787 347</b> | <b>1 848 862</b> | <b>1 930 005</b> | <b>1 930 038</b> | <b>1 975 083</b> |
| Afghanistan    | 968              | 1 001            | 1 025            | 1 043            | 882              | 1 221            | 988              | 850              | 738              |
| Bangladesh     | 607              | 802              | 1 021            | 1 051            | 915              | 812              | 777              | 734              | 711              |
| Bhutan         | 7 164            | 7 747            | 7 959            | 7 721            | 6 959            | 8 646            | 11 370           | 10 822           | 10 771           |
| Cambodia       | 1 852            | 2 160            | 2 568            | 2 711            | 4 737            | 4 025            | 3 860            | 5 044            | 5 898            |
| China          | 10 643 40        | 11 30 270        | 11 93 370        | 11 97 870        | 12 31 790        | 13 04 440        | 13 55 210        | 13 39 000        | 13 52 200        |
| China HK SAR   | 2                | 2                | 2                | 3                | 3                | 3                | 2                | 2                | 2                |
| Chinese Taipei | 7 439            | 7 505            | 9 856            | 8 781            | 7 852            | 8 753            | 6 178            | 6 659            | 8 899            |
| India          | 140 814          | 135 512          | 130 161          | 131 351          | 136 643          | 149 544          | 164 675          | 161 550          | 165 522          |
| Indonesia      | 15 201           | 13 780           | 18 728           | 18 683           | 21 637           | 21 161           | 24 325           | 24 697           | 27 295           |
| Japan          | 86 942           | 91 270           | 85 665           | 91 103           | 88 348           | 87 653           | 87 548           | 88 825           | 86 038           |
| Kazakhstan     | 8 263            | 9 269            | 11 621           | 11 210           | 10 395           | 9 994            | 9 660            | 9 208            | 9 142            |
| Korea DPR      | 13 650           | 10 000           | 12 800           | 11 900           | 12 800           | 11 000           | 12 800           | 16 100           | 16 600           |
| Korea Rep      | 7 820            | 5 796            | 6 634            | 7 006            | 7 270            | 6 249            | 7 148            | 6 737            | 7 256            |
| Kyrgyzstan     | 13 298           | 11 093           | 11 498           | 14 204           | 14 318           | 13 859           | 13 979           | 12 957           | 11 929           |
| Lao PDR        | 15 749           | 16 732           | 24 868           | 31 066           | 33 742           | 28 980           | 32 792           | 36 738           | 38 854           |
| Malaysia       | 13 541           | 15 525           | 20 358           | 26 717           | 26 296           | 26 281           | 27 302           | 27 302           | 27 302           |
| Mongolia       | 68               | 61               | 87               | 86               | 81               | 87               | 85               | 85               | 64               |
| Myanmar        | 10 298           | 10 639           | 12 126           | 13 212           | 14 648           | 12 897           | 11 176           | 11 892           | 11 455           |
| Nepal          | 3 609            | 3 588            | 3 825            | 4 423            | 4 745            | 5 521            | 6 186            | 7 918            | 10 176           |
| Pakistan       | 32 594           | 33 860           | 33 440           | 30 419           | 30 636           | 35 987           | 39 238           | 37 533           | 36 218           |
| Philippines    | 9 137            | 8 665            | 8 111            | 9 611            | 9 384            | 8 025            | 7 192            | 9 185            | 10 085           |
| Sri Lanka      | 4 560            | 5 996            | 4 245            | 4 028            | 6 408            | 4 819            | 4 984            | 7 234            | 6 767            |
| Tajikistan     | 16 312           | 16 900           | 16 803           | 17 312           | 18 573           | 19 348           | 19 348           | 19 348           | 19 879           |
| Thailand       | 5 316            | 3 873            | 3 650            | 4 835            | 7 781            | 6 443            | 4 683            | 4 683            | 6 854            |
| Timor Leste    | 2                | 2                | 2                | 2                | 2                | 2                |                  |                  |                  |
| Turkmenistan   | 3                | 3                | 3                | 3                | 3                | 3                | 3                | 3                | 3                |
| Uzbekistan     | 8 100            | 8 100            | 8 100            | 8 100            | 5 897            | 6 452            | 5 000            | 5 000            | 6 500            |
| Viet Nam       | 60 615           | 56 408           | 64 280           | 87 712           | 84 602           | 66 655           | 73 495           | 79 932           | 97 927           |

# Hydropower

## Hydroélectricité

## Hidroeléctrica

| PROD (GWh)               | 2014    | 2015    | 2016    | 2017    | 2018    | 2019    | 2020    | 2021    | 2022    |
|--------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| <b>C America + Carib</b> |         |         |         |         |         |         |         |         |         |
| Belize                   | 257     | 236     | 261     | 282     | 250     | 75      | 242     | 158     | 239     |
| Costa Rica               | 6 719   | 8 068   | 8 028   | 8 679   | 8 345   | 7 828   | 8 296   | 9 287   | 9 450   |
| Cuba                     | 104     | 48      | 64      | 83      | 146     | 128     | 115     | 123     | 124     |
| Dominica                 | 31      | 24      | 36      | 27      | 24      | 20      | 19      | 20      | 23      |
| Dominican Rep            | 1 271   | 945     | 1 519   | 2 196   | 1 780   | 1 060   | 1 293   | 1 501   | 1 465   |
| El Salvador              | 1 790   | 1 424   | 1 344   | 1 706   | 1 632   | 1 528   | 2 074   | 1 825   | 2 242   |
| Guadeloupe               | 27      | 21      | 34      | 38      | 40      | 44      | 25      | 11      | 12      |
| Guatemala                | 4 825   | 3 852   | 3 951   | 5 765   | 5 191   | 4 381   | 5 817   | 5 960   | 6 942   |
| Haiti                    | 90      | 83      | 71      | 127     | 197     | 200     | 200     | 200     | 200     |
| Honduras                 | 2 615   | 2 358   | 2 241   | 2 970   | 3 259   | 2 430   | 2 707   | 3 777   | 3 894   |
| Jamaica                  | 133     | 125     | 115     | 150     | 176     | 153     | 134     | 138     | 119     |
| Martinique               |         |         |         |         | 0       | 0       |         |         |         |
| Nicaragua                | 396     | 295     | 427     | 468     | 411     | 226     | 574     | 598     | 649     |
| Panama                   | 4 907   | 6 268   | 6 375   | 7 155   | 5 696   | 5 000   | 7 226   | 8 154   | 8 134   |
| Puerto Rico              | 81      | 56      | 71      | 51      | 38      | 41      | 51      | 40      | 45      |
| St Vincent Gren          | 12      | 17      | 16      | 20      | 24      | 22      | 22      | 19      | 19      |
| <b>Eurasia</b>           |         |         |         |         |         |         |         |         |         |
| Armenia                  | 1 993   | 2 206   | 2 351   | 2 269   | 2 318   | 2 371   | 1 778   | 2 202   | 2 846   |
| Azerbaijan               | 1 300   | 1 638   | 1 959   | 1 746   | 1 768   | 1 565   | 1 070   | 1 277   | 1 596   |
| Georgia                  | 8 335   | 8 454   | 9 329   | 9 210   | 9 949   | 8 932   | 8 248   | 10 182  | 10 771  |
| Russian Fed              | 178 421 | 171 168 | 187 822 | 188 343 | 194 241 | 197 709 | 215 303 | 216 915 | 201 870 |
| Türkiye                  | 40 645  | 67 146  | 67 231  | 58 218  | 59 938  | 88 823  | 78 094  | 55 927  | 66 802  |
| <b>Europe</b>            |         |         |         |         |         |         |         |         |         |
| Albania                  | 4 724   | 5 895   | 7 782   | 4 525   | 8 552   | 5 184   | 5 281   | 8 922   | 6 842   |
| Andorra                  | 113     | 86      | 84      | 85      | 114     | 137     | 121     | 79      | 67      |
| Austria                  | 44 834  | 40 592  | 43 008  | 42 175  | 41 219  | 44 204  | 45 344  | 42 540  | 39 221  |
| Belarus                  | 121     | 107     | 142     | 405     | 324     | 351     | 399     | 370     | 372     |
| Belgium                  | 1 465   | 1 418   | 1 489   | 1 397   | 1 308   | 1 181   | 1 315   | 1 350   | 1 646   |
| Bosnia Herzg             | 5 935   | 5 551   | 5 641   | 3 987   | 6 519   | 6 172   | 4 663   | 6 796   | 4 739   |
| Bulgaria                 | 5 163   | 6 147   | 4 568   | 3 493   | 5 423   | 3 383   | 3 320   | 5 067   | 3 833   |
| Croatia                  | 9 124   | 6 556   | 7 058   | 5 508   | 7 785   | 5 933   | 5 810   | 7 229   | 5 574   |
| Czechia                  | 2 961   | 3 071   | 3 202   | 3 040   | 2 679   | 3 175   | 3 437   | 3 620   | 3 083   |
| Denmark                  | 15      | 18      | 19      | 18      | 15      | 17      | 17      | 16      | 15      |
| Estonia                  | 27      | 27      | 35      | 26      | 15      | 19      | 30      | 23      | 23      |
| Faroe Islands            | 121     | 133     | 106     | 111     | 108     | 104     | 109     | 100     | 131     |
| Finland                  | 13 397  | 16 769  | 15 799  | 14 771  | 13 301  | 12 420  | 15 883  | 15 791  | 13 492  |
| France                   | 69 570  | 60 513  | 65 686  | 55 135  | 70 472  | 61 572  | 67 094  | 63 947  | 51 049  |
| Germany                  | 25 444  | 24 897  | 26 134  | 26 155  | 23 863  | 25 671  | 25 275  | 24 972  | 23 576  |
| Greece                   | 4 607   | 6 150   | 5 565   | 4 040   | 5 760   | 4 051   | 3 440   | 5 961   | 4 000   |
| Hungary                  | 301     | 234     | 259     | 220     | 222     | 219     | 244     | 212     | 178     |
| Iceland                  | 12 873  | 13 781  | 13 470  | 14 059  | 13 814  | 13 461  | 13 157  | 13 804  | 14 196  |
| Ireland                  | 988     | 1 095   | 973     | 895     | 932     | 1 132   | 1 224   | 1 036   | 948     |
| Italy                    | 60 256  | 46 969  | 44 257  | 38 025  | 50 503  | 48 154  | 49 495  | 47 478  | 30 291  |
| Kosovo*                  | 151     | 140     | 245     | 179     | 273     | 213     | 263     | 297     | 260     |
| Latvia                   | 1 994   | 1 860   | 2 530   | 4 381   | 2 432   | 2 108   | 2 603   | 2 708   | 2 750   |
| Lithuania                | 1 088   | 1 024   | 1 044   | 1 181   | 960     | 948     | 1 080   | 1 094   | 1 021   |
| Luxembourg               | 1 168   | 1 531   | 1 528   | 1 422   | 1 337   | 949     | 1 094   | 1 085   | 1 124   |
| Moldova Rep              | 320     | 269     | 230     | 285     | 272     | 298     | 273     | 313     | 274     |
| Montenegro               | 1 752   | 1 491   | 1 843   | 1 024   | 2 113   | 1 634   | 1 448   | 2 010   | 1 444   |
| Netherlands              | 112     | 93      | 100     | 61      | 72      | 74      | 46      | 88      | 50      |
| North Macedonia          | 1 207   | 1 865   | 1 897   | 1 110   | 1 791   | 1 164   | 1 277   | 1 452   | 1 345   |
| Norway                   | 136 185 | 138 450 | 143 417 | 143 112 | 139 714 | 126 030 | 142 471 | 144 368 | 129 366 |
| Poland                   | 2 734   | 2 435   | 2 622   | 3 034   | 2 387   | 2 665   | 2 937   | 3 101   | 3 018   |
| Portugal                 | 16 412  | 9 800   | 16 909  | 7 632   | 13 628  | 10 243  | 13 633  | 13 455  | 8 839   |
| Romania                  | 19 279  | 17 007  | 18 536  | 14 853  | 18 097  | 16 006  | 15 701  | 17 745  | 14 360  |
| Serbia                   | 11 617  | 10 783  | 11 520  | 9 752   | 11 393  | 10 198  | 9 749   | 11 984  | 9 274   |
| Slovakia                 | 4 462   | 4 137   | 4 606   | 4 623   | 3 879   | 4 571   | 4 799   | 4 552   | 3 963   |
| Slovenia                 | 6 366   | 4 090   | 4 782   | 4 141   | 4 893   | 4 683   | 5 225   | 4 997   | 3 401   |
| Spain                    | 42 970  | 31 368  | 39 865  | 21 070  | 36 803  | 26 874  | 33 998  | 32 847  | 22 102  |
| Sweden                   | 63 871  | 75 440  | 62 137  | 65 168  | 62 250  | 65 393  | 72 440  | 73 926  | 69 967  |
| Switzerland              | 39 701  | 39 881  | 36 689  | 37 033  | 37 803  | 40 962  | 41 022  | 39 895  | 33 836  |
| UK                       | 8 771   | 9 037   | 8 329   | 8 754   | 7 942   | 7 689   | 8 408   | 7 292   | 7 632   |
| Ukraine                  | 9 321   | 6 971   | 9 304   | 10 531  | 12 007  | 7 855   | 7 564   | 7 564   | 9 351   |
| European Union           | 399 566 | 364 253 | 373 650 | 323 492 | 371 417 | 346 518 | 376 372 | 375 795 | 308 765 |

# Hydropower

## Hydroélectricité

## Hidroeléctrica

| PROD (GWh)         | 2014           | 2015           | 2016           | 2017           | 2018           | 2019           | 2020           | 2021           | 2022           |
|--------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| <b>Middle East</b> | <b>19 399</b>  | <b>17 605</b>  | <b>21 145</b>  | <b>18 436</b>  | <b>18 710</b>  | <b>37 706</b>  | <b>27 968</b>  | <b>18 473</b>  | <b>17 809</b>  |
| Iran IR            | 13 862         | 14 087         | 16 419         | 15 051         | 15 765         | 31 003         | 22 007         | 13 683         | 13 683         |
| Iraq               | 2 933          | 2 548          | 3 374          | 2 178          | 1 820          | 4 966          | 4 164          | 3 348          | 2 653          |
| Israel             | 13             | 25             |                |                |                |                |                |                |                |
| Jordan             | 58             | 53             | 42             | 38             | 23             | 18             | 18             | 18             | 19             |
| Lebanon            | 193            | 479            | 382            | 415            | 348            | 965            | 1 025          | 670            | 700            |
| Syrian AR          | 2 340          | 413            | 929            | 754            | 754            | 754            | 754            | 754            | 754            |
| <b>N America</b>   | <b>703 390</b> | <b>684 633</b> | <b>708 717</b> | <b>752 143</b> | <b>735 915</b> | <b>716 539</b> | <b>722 077</b> | <b>691 361</b> | <b>713 113</b> |
| Canada             | 382 574        | 382 266        | 385 505        | 394 659        | 385 967        | 381 843        | 386 617        | 383 963        | 397 727        |
| Greenland          | 396            | 423            | 401            | 388            | 418            | 409            | 430            | 433            | 467            |
| Mexico             | 38 893         | 30 815         | 30 698         | 31 982         | 32 526         | 23 716         | 26 817         | 32 869         | 35 851         |
| USA                | 281 527        | 271 129        | 292 113        | 325 114        | 317 004        | 310 571        | 308 213        | 274 096        | 279 068        |
| <b>Oceania</b>     | <b>44 509</b>  | <b>39 745</b>  | <b>43 018</b>  | <b>43 284</b>  | <b>44 225</b>  | <b>43 634</b>  | <b>41 509</b>  | <b>41 618</b>  | <b>45 501</b>  |
| Australia          | 18 421         | 13 445         | 15 318         | 16 285         | 16 021         | 15 967         | 15 150         | 15 200         | 17 011         |
| Fiji               | 401            | 406            | 496            | 492            | 567            | 560            | 559            | 548            | 599            |
| Fr Polynesia       | 167            | 167            | 184            | 176            | 165            | 160            | 161            | 144            | 192            |
| Micronesia         | 1              | 1              | 1              | 1              | 1              | 1              | 1              | 1              | 1              |
| New Caledon        | 289            | 340            | 232            | 361            | 317            | 285            | 305            | 425            | 539            |
| New Zealand        | 24 316         | 24 528         | 25 933         | 25 173         | 26 252         | 25 596         | 24 266         | 24 232         | 26 274         |
| Papua N Guin       | 875            | 817            | 817            | 753            | 847            | 1 011          | 1 011          | 1 011          | 847            |
| Samoa              | 30             | 33             | 30             | 35             | 46             | 45             | 47             | 47             | 29             |
| Solomon Is         | 0              | 0              | 1              | 1              | 1              | 1              | 1              | 1              | 1              |
| Vanuatu            | 8              | 7              | 5              | 7              | 8              | 8              | 9              | 8              | 9              |
| <b>S America</b>   | <b>658 664</b> | <b>643 704</b> | <b>657 677</b> | <b>675 643</b> | <b>691 074</b> | <b>683 734</b> | <b>669 030</b> | <b>640 525</b> | <b>710 343</b> |
| Argentina          | 33 149         | 32 846         | 30 242         | 32 183         | 32 572         | 27 924         | 24 267         | 20 193         | 23 589         |
| Bolivia            | 2 251          | 2 463          | 1 720          | 2 234          | 2 612          | 3 251          | 2 942          | 3 237          | 2 852          |
| Brazil             | 373 439        | 359 743        | 380 911        | 370 907        | 388 971        | 397 877        | 396 381        | 362 819        | 427 114        |
| Chile              | 23 258         | 23 925         | 23 435         | 21 370         | 23 427         | 22 507         | 21 931         | 19 348         | 20 684         |
| Colombia           | 47 870         | 48 569         | 49 097         | 61 441         | 59 934         | 54 595         | 49 978         | 62 337         | 62 259         |
| Ecuador            | 11 458         | 13 096         | 15 834         | 20 089         | 20 678         | 24 641         | 24 324         | 25 563         | 24 635         |
| Fr Guiana          | 505            | 498            | 440            | 568            | 540            | 414            | 437            | 586            | 596            |
| Guyana             | 4              | 4              | 4              | 4              | 4              | 4              | 4              | 4              | 4              |
| Paraguay           | 55 276         | 55 743         | 63 770         | 59 684         | 59 211         | 49 445         | 46 371         | 40 574         | 43 879         |
| Peru               | 20 876         | 23 585         | 20 876         | 28 921         | 30 548         | 31 323         | 30 475         | 31 890         | 29 708         |
| South Georgia      | 1              | 1              | 1              | 0              | 1              | 1              | 1              | 1              | 1              |
| Suriname           | 559            | 472            | 783            | 926            | 1 000          | 953            | 674            | 847            | 847            |
| Uruguay            | 9 649          | 7 855          | 7 601          | 7 277          | 6 290          | 8 007          | 4 051          | 5 277          | 5 659          |
| Venezuela          | 80 367         | 74 906         | 62 962         | 70 039         | 65 285         | 62 793         | 67 194         | 67 849         | 68 515         |

# Renewable hydropower (including mixed plants)

## Hydroélectricité renouvelable (y compris les centrales mixtes)

## Hidroeléctrica renovable (incluidas las plantas mixtas)

| CAP (MW)       | 2014      | 2015      | 2016      | 2017      | 2018      | 2019      | 2020      | 2021      | 2022      | 2023      |
|----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| World          | 1 067 334 | 1 099 508 | 1 130 045 | 1 151 058 | 1 173 784 | 1 192 481 | 1 212 866 | 1 235 193 | 1 258 170 | 1 264 742 |
| Africa         | 26 728    | 27 238    | 28 166    | 30 923    | 32 288    | 32 993    | 33 852    | 34 333    | 36 079    | 37 084    |
| Algeria        | 228       | 228       | 228       | 228 e     | 228 e     | 228 e     | 209 o     | 129 e     | 129 e     | 129 e     |
| Angola         | 969 u     | 969 e     | 1 700 u   | 2 393 u   | 3 061 e   | 3 395 e   | 3 729 e   | 3 729 e   | 3 729 e   | 3 729 e   |
| Benin          | 1         | 1         | 1         | 1         | 1         | 1 e       | 1 e       | 1 e       | 1 e       | 1 e       |
| Burkina Faso   | 32 o      | 35 e      | 37 e      |
| Burundi        | 51 e      | 51 e      | 51 e      | 48 e      | 48 e      | 48 e      | 48 e      | 63 e      | 63 e      | 63 e      |
| Cameroon       | 732 e     | 813 e     | 813 e     | 814 e     | 814 e     | 814 e     |
| Cent Afr Rep   | 19 e      |
| Comoros        | 1 e       | 1 e       | 1 e       | 1 e       | 1 e       | 1 e       | 1 e       | 1 e       | 1 e       | 1 e       |
| Congo DR       | 2 417 o   | 2 417 o   | 2 429 e   | 2 440 e   | 2 598 e   | 2 608 e   | 2 608 e   | 2 608 e   | 2 932 e   | 3 172 e   |
| Congo Rep      | 194 e     | 194 e     | 201 u     | 214 u     | 214 u     | 214 e     |
| Cote d'Ivoire  | 604 o     | 604 o     | 604 o     | 879 e     | 879 e     | 879 e     | 879 e     | 879 o     | 879 e     | 879 e     |
| Egypt          | 2 800 o   | 2 800 o   | 2 800 o   | 2 800 o   | 2 832 o   | 2 832 o   | 2 832 e   | 2 832 e   | 2 832 e   | 2 832 o   |
| Eq Guinea      | 126 o     | 126 o     | 126 o     | 126 e     | 127 o     | 127 e     |
| Eswatini       | 62 e      |
| Ethiopia       | 1 972 e   | 2 159 e   | 2 159     | 3 817     | 3 817 e   | 4 071     | 4 071     | 4 821 e   | 4 883 e   | 4 883 e   |
| Gabon          | 331 e     |
| Ghana          | 1 580 o   | 1 584 o   | 1 584 o   | 1 584 o   | 1 584 e   |
| Guinea         | 129 o     | 369 o     | 369 o     | 369 e     | 369 e     | 364 e     | 589 e     | 814 e     | 814 e     | 814 e     |
| Kenya          | 828 e     | 827 e     | 830 e     | 841 e     | 845 e     | 852 e     | 854 e     | 858 e     | 858 e     | 859 e     |
| Lesotho        | 74        | 74        | 74        | 74        | 74        | 74        | 74        | 74        | 74        | 74 e      |
| Liberia        | 5 e       | 5 e       | 27 e      | 93 e      |
| Madagascar     | 163 e     | 164 e     | 192 e     | 193 e     |
| Malawi         | 372 e     | 372 e     | 373 e     | 393 e     | 393 e     | 393 e     |
| Mali           | 315 e     | 455 e     | 455 e     | 455 e     |
| Mauritius      | 61 e      |
| Morocco        | 1 306     | 1 306     | 1 306     | 1 306     | 1 306 e   | 1 306 e   | 1 306 e   | 1 306 o   | 1 306 e   | 1 306 e   |
| Mozambique     | 2 191 e   | 2 192 e   | 2 193 e   | 2 193 e   | 2 193 e   | 2 193 e   | 2 194 e   | 2 194 e   | 2 194 e   | 2 194 e   |
| Namibia        | 330       | 330       | 347       | 347 o     | 347 o     | 347       | 351 u     | 351 e     | 351 e     | 351 e     |
| Nigeria        | 2 110 o   | 2 111 o   | 2 111 o   | 2 111 o   | 2 111 e   | 2 111 e   | 2 151 e   | 2 151 e   | 2 151 e   | 2 851 e   |
| Reunion        | 134 o     | 134 o     | 133 o     | 134 o     | 134 e     | 134 o     |
| Rwanda         | 66 e      | 94 e      | 98 e      | 98 e      | 98 e      | 109 e     | 119 e     | 119 e     | 124 e     | 124 e     |
| Sao Tome Prn   | 2 o       | 2 o       | 2 o       | 2 o       | 2 o       | 2 o       | 2 o       | 2 e       | 2 e       | 2 e       |
| Sierra Leone   | 56 e      | 56 e      | 61 e      |
| South Africa   | 733 e     | 748 e     | 752 e     | 752 e     | 752 e     |
| Sudan          | 1 322 o   | 1 322 o   | 1 322 o   | 1 322 o   | 1 482 o   | 1 482 o   | 1 482 o   | 1 482 e   | 1 482 e   | 1 482 e   |
| Tanzania       | 572 e     | 579 e     | 587 e     | 589 e     | 589 e     | 596 e     | 598 e     | 599 e     | 599 e     | 599 e     |
| Togo           | 67 o      | 67 e      |
| Tunisia        | 62 o      | 62 o      | 62 o      | 62 o      | 66 e      | 66 e      |
| Uganda         | 695 e     | 695 e     | 695 e     | 707 e     | 744 e     | 1 004 e   | 1 011 e   | 1 011 e   | 1 033 e   | 1 033 e   |
| Zambia         | 2 259 e   | 2 268 e   | 2 388 e   | 2 398 e   | 2 398 e   | 2 400 e   | 2 400 e   | 2 706 e   | 3 165 e   | 3 165 e   |
| Zimbabwe       | 757 e     | 772 e     | 776 e     | 780 e     | 1 080 e   | 1 080 e   | 1 080 e   | 1 080 e   | 1 080 e   | 1 080 e   |
| Asia           | 423 307   | 442 495   | 454 865   | 466 419   | 478 699   | 489 460   | 503 741   | 522 654   | 539 321   | 543 810   |
| Afghanistan    | 280 e     | 284 e     | 329 e     | 349 e     | 349 e     | 349 e     | 349 e     | 357 u     | 459 u     | 459 e     |
| Bangladesh     | 230 o     | 230 o     | 230 o     | 230 o     | 230 e     | 230 o     |
| Bhutan         | 1 488 o   | 1 614 o   | 1 614 o   | 1 614 o   | 1 614 o   | 2 334 u   | 2 334 e   | 2 334 o   | 2 334 o   | 2 334 e   |
| Cambodia       | 929 o     | 930 o     | 930 o     | 980 o     | 1 330 o   | 1 330 o   | 1 330 o   | 1 330 o   | 1 676 o   | 1 791 o   |
| China          | 282 750   | 296 500   | 305 380   | 314 385   | 322 271   | 327 750 o | 338 670   | 354 530   | 367 710   | 370 600   |
| China HK SAR   | 1         | 1         | 1         | 1         | 1         | 1         | 1         | 1         | 1         | 1 e       |
| Chinese Taipei | 2 081 o   | 2 089 o   | 2 089 o   | 2 089 o   | 2 092 o   | 2 093 o   | 2 093 o   | 2 094 o   | 2 098 o   | 2 104 o   |
| India          | 40 621 e  | 42 319 e  | 42 837 e  | 44 735 e  | 45 317 e  | 45 494 o  | 45 977 e  | 46 781 e  | 47 224 e  | 47 336 e  |
| Indonesia      | 5 243 e   | 5 322 e   | 5 666 e   | 5 703 e   | 5 772 o   | 5 976 o   | 6 121 o   | 6 602 o   | 6 689 o   | 6 570 o   |
| Japan          | 27 873    | 28 111    | 28 161    | 28 118    | 28 140    | 28 136    | 28 136    | 28 032    | 28 111    | 28 129 e  |
| Kazakhstan     | 2 675     | 2 678     | 2 696     | 2 726     | 2 756 u   | 2 778 e   | 2 785     | 2 807     | 2 807     | 2 903 o   |
| Korea DPR      | 4 293 o   | 4 467 o   | 4 701 o   | 4 761 o   | 4 790 o   | 4 790 o   | 4 865 o   | 4 865 o   | 4 890 u   | 4 890 e   |
| Korea Rep      | 1 769     | 1 772     | 1 790     | 1 794     | 1 798     | 1 809     | 1 807     | 1 821     | 1 813     | 1 805 o   |
| Kyrgyzstan     | 3 671     | 3 677     | 3 677     | 3 689     | 3 673 o   | 3 673 e   | 3 674     | 2 780 o   | 2 780 o   | 3 210 e   |
| Lao PDR        | 3 292 e   | 4 393 e   | 4 869 e   | 5 102 e   | 5 380 e   | 6 224 e   | 8 013 e   | 8 956 e   | 9 646 e   | 9 756 e   |
| Malaysia       | 4 761 e   | 5 742 e   | 6 121 e   | 6 145 e   | 6 165 e   | 6 185 e   | 6 197 e   | 6 215 e   | 6 215 e   | 6 215 e   |
| Mongolia       | 29 e      | 29 e      | 31 e      | 31 e      | 31 o      | 31 e      | 29        | 29        | 29        | 29 e      |
| Myanmar        | 3 188 e   | 3 190 e   | 3 262 e   | 3 262 e   | 3 269 e   |
| Nepal          | 737 e     | 791 e     | 811 e     | 916 e     | 1 038 e   | 1 159 e   | 1 282 e   | 1 973 e   | 2 199 e   | 2 677 e   |
| Pakistan       | 7 220 e   | 7 221 e   | 7 254 e   | 7 406 e   | 9 906 e   | 9 925 e   | 10 045 e  | 10 045 e  | 10 636 e  | 10 636 e  |
| Philippines    | 2 858 o   | 2 877 o   | 2 887 o   | 2 896 o   | 2 983 o   | 3 025 o   | 3 044 o   | 3 047 e   | 3 037 o   | 3 094 o   |
| Sri Lanka      | 1 669 e   | 1 688 e   | 1 726 e   | 1 745 e   | 1 797 e   | 1 813 e   | 1 797 e   | 1 801 e   | 1 831 e   | 1 843 e   |
| Tajikistan     | 4 983 u   | 4 983 u   | 4 983 u   | 4 983 u   | 4 984 e   | 5 744 e   | 5 744 u   | 5 745 u   | 5 763 u   | 5 763 e   |
| Thailand       | 3 048 o   | 3 079 o   | 3 089 o   | 3 089 o   | 3 107 o   | 3 107 o   | 3 110 o   | 3 110 e   | 3 110 e   | 3 110 e   |
| Timor Leste    | 0 o       | 0 e       | 0 e       | 0 e       | 0 e       | 0 e       | 0 e       | 0 e       | 0 e       | 0 e       |
| Turkmenistan   | 1         | 1         | 1         | 1         | 1         | 1 e       | 1         | 2 e       | 2         | 2 e       |
| Uzbekistan     | 1 871     | 1 880     | 1 880     | 1 858     | 1 915 o   | 1 908     | 2 021 o   | 2 052 o   | 2 225 u   | 2 415 u   |
| Viet Nam       | 15 745 e  | 16 628 e  | 17 849 e  | 17 809 e  | 17 989 e  | 20 326 e  | 20 817 e  | 21 847 e  | 22 535 e  | 22 639 e  |

**Renewable hydropower (including mixed plants)**  
**Hydroélectricité renouvelable (y compris les centrales mixtes)**  
**Hidroeléctrica renovable (incluidas las plantas mixtas)**

| CAP (MW)                 | 2014           | 2015           | 2016           | 2017           | 2018           | 2019           | 2020           | 2021           | 2022           | 2023           |
|--------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| <b>C America + Carib</b> | <b>6 578</b>   | <b>6 957</b>   | <b>7 608</b>   | <b>7 755</b>   | <b>8 034</b>   | <b>8 148</b>   | <b>8 265</b>   | <b>8 318</b>   | <b>8 366</b>   | <b>8 412</b>   |
| Belize                   | 55 u           | 55 e           |
| Costa Rica               | 1 835 o        | 1 936 o        | 2 329 o        | 2 329 o        | 2 373 o        | 2 344 o        | 2 332 o        | 2 379 o        | 2 331 o        | 2 372          |
| Cuba                     | 63             | 63             | 66             | 66             | 64 o           | 66 o           | 67 u           | 67 o           | 67 e           | 67 e           |
| Dominica                 | 7 o            | 7 o            | 7 o            | 7 o            | 7 o            | 7 o            | 7 o            | 7 o            | 7 e            | 7 e            |
| Dominican Rep            | 593 o          | 613 o          | 613 o          | 614 o          | 616            | 625 o          | 625 o          | 625 e          | 624 e          | 624            |
| El Salvador              | 490 e          | 497 e          | 495 e          | 575 e          | 575 e          | 576 o          | 575 o          | 573 o          | 573 e          | 573 e          |
| Guadeloupe               | 9 o            | 9 o            | 9 o            | 11 o           | 11 o           | 11 o           | 11 o           | 11 o           | 11 o           | 11 o           |
| Guatemala                | 1 013 o        | 1 087          | 1 392 o        | 1 438 o        | 1 502 o        | 1 574 o        | 1 577 o        | 1 572 o        | 1 573 o        | 1 574 o        |
| Haiti                    | 56 e           | 56 e           | 56 e           | 56 e           | 78 u           | 78 e           |
| Honduras                 | 629 o          | 638 o          | 677 o          | 682 o          | 707 o          | 730 o          | 838 o          | 850 o          | 910 o          | 910 o          |
| Jamaica                  | 30             | 30             | 30             | 30             | 30 e           |
| Martinique               |                |                |                |                | 0              | 0              |                |                |                |                |
| Nicaragua                | 120            | 138            | 142 o          | 142 o          | 142 o          | 157 o          | 157 o          | 158 o          | 159 o          | 160 e          |
| Panama                   | 1 574 o        | 1 725          | 1 632 o        | 1 647 o        | 1 770 o        | 1 791 o        | 1 810 o        | 1 810 o        | 1 845 o        | 1 847 o        |
| Puerto Rico              | 98 o           |
| St Vincent Gren          | 6 e            | 6 e            | 6              | 6 e            | 6 e            | 6 e            | 6 u            | 6 u            | 6 e            | 6 e            |
| <b>Eurasia</b>           | <b>78 935</b>  | <b>81 319</b>  | <b>82 508</b>  | <b>83 305</b>  | <b>84 557</b>  | <b>85 367</b>  | <b>88 204</b>  | <b>88 747</b>  | <b>88 856</b>  | <b>88 456</b>  |
| Armenia                  | 1 298 o        | 1 287 o        | 1 312 o        | 1 327          | 1 336 o        | 1 340 o        | 1 350 o        | 1 345 o        | 1 345 e        | 1 358 o        |
| Azerbaijan               | 1 078          | 1 103          | 1 105          | 1 106 u        | 1 131 o        | 1 145          | 1 149 o        | 1 157          | 1 165 o        | 1 302 u        |
| Georgia                  | 2 800 u        | 2 802 u        | 3 160 u        | 3 113 u        | 3 220 u        | 3 300 u        | 3 323 u        | 3 354 u        | 3 376 u        | 3 446 u        |
| Russian Fed              | 50 116         | 50 259         | 50 250         | 50 486         | 50 579         | 51 079         | 51 398         | 51 398         | 51 398         | 50 571 e       |
| Türkiye                  | 23 643         | 25 868         | 26 681         | 27 273 o       | 28 291         | 28 503         | 30 984         | 31 493         | 31 571         | 31 779 o       |
| <b>Europe</b>            | <b>183 626</b> | <b>186 049</b> | <b>189 296</b> | <b>191 108</b> | <b>192 253</b> | <b>193 182</b> | <b>194 709</b> | <b>195 523</b> | <b>197 128</b> | <b>196 857</b> |
| Albania                  | 1 725          | 1 798          | 1 913          | 2 047          | 2 105          | 2 162          | 2 387          | 2 507          | 2 493          | 2 493 o        |
| Andorra                  | 46 o           | 46 e           | 46 e           | 46 e           | 46 e           |
| Austria                  | 13 532         | 13 650         | 14 116         | 14 150         | 14 516         | 14 597         | 14 635         | 14 748         | 14 923         | 14 708 o       |
| Belarus                  | 33             | 34             | 74             | 95             | 95 o           | 95 e           | 96             | 96 e           | 96             | 97 u           |
| Belgium                  | 121            | 112            | 109            | 107            | 108            | 104            | 106            | 111            | 123            | 123 o          |
| Bosnia Herzg             | 1 711 o        | 1 717 o        | 1 760 o        | 1 791          | 1 816          | 1 819          | 1 829          | 1 837          | 1 838 o        | 1 838 o        |
| Bulgaria                 | 2 355          | 2 355          | 2 359          | 2 508          | 2 515          | 2 514          | 2 512          | 2 505          | 2 526          | 2 526 e        |
| Croatia                  | 2 180          | 2 195          | 2 192          | 2 193          | 2 200          | 2 200          | 2 200          | 2 201          | 2 206          | 2 206 o        |
| Czechia                  | 1 080          | 1 088          | 1 090          | 1 093          | 1 093          | 1 094          | 1 094          | 1 113          | 1 114          | 1 115 u        |
| Denmark                  | 9              | 7              | 9              | 7              | 7              | 7              | 7              | 7              | 7              | 7 e            |
| Estonia                  | 5              | 6              | 6              | 7              | 7 e            | 6              | 8              | 6              | 8              | 8 o            |
| Faeroe Islands           | 39 o           | 39 o           | 39 o           | 39 o           | 40             | 40 e           |
| Finland                  | 3 132          | 3 133          | 3 133          | 3 156          | 3 152          | 3 157          | 3 164          | 3 171          | 3 171          | 3 177 o        |
| France                   | 23 799         | 23 824         | 23 893         | 23 979         | 23 999         | 24 141         | 24 227         | 24 263         | 24 236         | 24 139 e       |
| Germany                  | 5 580          | 5 589          | 5 629          | 5 627          | 5 329          | 5 378          | 5 454          | 5 490          | 5 621          | 5 741 e        |
| Greece                   | 3 389          | 3 392          | 3 392          | 3 392          | 3 409          | 3 412          | 3 417          | 3 421          | 3 421          | 3 427 o        |
| Hungary                  | 57             | 57             | 57             | 57             | 57             | 58             | 58             | 60             | 60             | 60 o           |
| Iceland                  | 1 984          | 1 987          | 1 987          | 1 995          | 2 099          | 2 104          | 2 114          | 2 114          | 2 114 e        | 2 114 e        |
| Ireland                  | 237            | 237            | 237            | 237            | 237            | 237            | 237            | 237            | 237            | 237 e          |
| Italy                    | 18 116         | 18 238         | 18 316         | 18 486         | 18 558 o       | 18 601         | 18 755         | 18 809         | 18 933         | 18 848 o       |
| Kosovo*                  | 43             | 43             | 78             | 80             | 80             | 95             | 110            | 110            | 110            | 110 e          |
| Latvia                   | 1 588          | 1 588          | 1 564          | 1 564          | 1 565          | 1 587          | 1 586          | 1 587          | 1 588          | 1 567 o        |
| Lithuania                | 117            | 117            | 117            | 117            | 117            | 117            | 117            | 117            | 117            | 118 o          |
| Luxembourg               | 34             | 34             | 34             | 35             | 34             | 34 e           | 35             | 35             | 34             | 34 o           |
| Moldova Rep              | 64             | 64             | 64             | 64 o           | 64 o           | 64 e           | 64             | 64 e           | 64             | 64 o           |
| Montenegro               | 653            | 662            | 668            | 675            | 676            | 676            | 697            | 697 o          | 697            | 697 e          |
| Netherlands              | 37             | 37             | 37             | 37             | 37             | 37             | 37             | 37             | 38             | 38 o           |
| North Macedonia          | 630            | 658            | 661            | 671            | 674            | 678            | 687            | 689            | 696 o          | 696 o          |
| Norway                   | 31 240         | 31 372         | 31 817         | 31 912         | 32 530         | 32 797         | 33 732         | 34 075         | 34 269         | 34 401 e       |
| Poland                   | 958            | 964            | 972            | 967            | 968            | 974            | 977            | 975            | 984            | 983 e          |
| Portugal                 | 5 715          | 6 168          | 6 960          | 7 226          | 7 236          | 7 262          | 7 241          | 7 255          | 8 189          | 8 188 e        |
| Romania                  | 6 521          | 6 638          | 6 642          | 6 600          | 6 609          | 6 595          | 6 561          | 6 571          | 6 571          | 6 574 e        |
| Serbia                   | 2 403          | 2 408          | 2 416          | 2 424          | 2 429          | 2 460          | 2 468 e        | 2 471 e        | 2 493          | 2 494 e        |
| Slovakia                 | 1 607          | 1 606          | 1 608          | 1 607          | 1 612          | 1 611          | 1 613          | 1 615          | 1 616          | 1 616 e        |
| Slovenia                 | 1 116          | 1 115          | 1 113          | 1 167          | 1 163          | 1 171          | 1 172          | 1 172          | 1 166          | 1 162 o        |
| Spain                    | 15 892         | 16 722         | 16 749         | 16 748         | 16 748         | 16 782         | 16 785         | 16 801         | 16 806 o       | 16 809 o       |
| Sweden                   | 15 897         | 16 230         | 16 367         | 16 502         | 16 431         | 16 462         | 16 406         | 16 407         | 16 399         | 16 399 e       |
| Switzerland              | 13 288         | 13 346         | 14 279         | 14 826         | 14 980 o       | 15 012         | 15 032         | 15 049         | 15 065 o       | 15 279 o       |
| UK                       | 2 029          | 2 077          | 2 133          | 2 170 e        | 2 177          | 2 180 o        | 2 185 o        | 2 190 o        | 2 190          | 2 191 o        |
| Ukraine                  | 4 665          | 4 697          | 4 658          | 4 704          | 4 734          | 4 816          | 4 819          | 4 823 u        | 4 823 e        | 4 488 u        |
| <b>European Union</b>    | <b>123 336</b> | <b>125 364</b> | <b>126 964</b> | <b>127 832</b> | <b>127 973</b> | <b>128 402</b> | <b>128 666</b> | <b>128 979</b> | <b>130 357</b> | <b>130 073</b> |
| <b>Middle East</b>       | <b>14 854</b>  | <b>14 385</b>  | <b>14 601</b>  | <b>14 255</b>  | <b>14 401</b>  | <b>14 484</b>  | <b>14 494</b>  | <b>14 492</b>  | <b>14 842</b>  | <b>15 018</b>  |
| Iran IR                  | 10 785         | 10 238 e       | 10 538 e       | 10 913 e       | 11 059 e       | 11 142 e       | 11 153 e       | 11 153 e       | 11 503 e       | 11 679 u       |
| Iraq                     | 2 274 e        | 2 274 e        | 2 274 e        | 1 557 e        |
| Israel                   | 7 o            | 7 e            | 7 e            | 7 e            | 7 e            | 7 e            | 6 o            | 6 e            | 6 e            | 6 e            |
| Jordan                   | 12 o           | 12 o           | 6 o            | 6 o            | 6 o            | 6 o            | 6 o            | 4 o            | 4 o            | 4 e            |
| Lebanon                  | 282 e          |
| Syrian AR                | 1 494 o        | 1 572 o        | 1 494 o        | 1 490 o        | 1 490 o        | 1 490 e        |

**Renewable hydropower (including mixed plants)**  
**Hydroélectricité renouvelable (y compris les centrales mixtes)**  
**Hidroeléctrica renovable (incluidas las plantas mixtas)**

| CAP (MW)         | 2014           | 2015           | 2016           | 2017           | 2018           | 2019           | 2020           | 2021           | 2022           | 2023           |
|------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| <b>N America</b> | <b>171 350</b> | <b>175 040</b> | <b>176 622</b> | <b>177 169</b> | <b>177 997</b> | <b>178 353</b> | <b>178 563</b> | <b>179 920</b> | <b>180 596</b> | <b>180 384</b> |
| Canada           | 75 300         | 79 231         | 80 130         | 80 657         | 81 396 o       | 81 396 o       | 81 209 o       | 82 133 o       | 83 138 o       | 83 138 o       |
| Greenland        | 91 o           | 91 o           | 91 o           | 91 o           | 91 e           | 91 o           | 91 e           | 91 e           | 91 e           | 91 e           |
| Mexico           | 12 464 o       | 12 223 o       | 12 580 o       | 12 628 o       | 12 628 o       | 13 076 o       | 13 301 o       | 13 303 o       | 12 838 o       | 12 838 o       |
| USA              | 83 494 o       | 83 494 o       | 83 821 o       | 83 792 o       | 83 882 o       | 83 790 o       | 83 961 o       | 84 392 o       | 84 529 o       | 84 317 o       |
| <b>Oceania</b>   | <b>13 411</b>  | <b>13 429</b>  | <b>13 429</b>  | <b>13 433</b>  | <b>13 686</b>  | <b>13 696</b>  | <b>13 699</b>  | <b>13 699</b>  | <b>13 939</b>  | <b>14 732</b>  |
| Australia        | 7 461          | 7 461          | 7 461          | 7 461          | 7 713 o        | 7 713 o        | 7 713 o        | 7 713 o        | 7 713 e        | 8 440 e        |
| Fiji             | 138 u          | 138 u          | 138 u          | 138 u          | 138 e          |
| Fr Polynesia     | 47 o           | 47 o           | 47 o           | 48 o           | 48 o           | 49 o           | 49 e           | 49 e           | 49 o           | 49 e           |
| Micronesia       | 1 o            | 1 o            | 1 o            | 1 o            | 1 o            | 1 o            | 1 o            | 1 e            | 1 e            | 1 e            |
| New Caledon      | 78 o           | 78 o           | 78 o           | 78 o           | 78 e           | 81 o           | 81 e           | 81 e           | 81 e           | 81 e           |
| New Zealand      | 5 435          | 5 435          | 5 435          | 5 435          | 5 435          | 5 443          | 5 443          | 5 443          | 5 680          | 5 680 e        |
| Papua N Guin     | 240 e          | 258 e          | 261 e          | 327 e          |
| Samoa            | 9 e            | 9 e            | 9 e            | 13             | 13             | 14             | 14 e           | 14 e           | 14 e           | 14 e           |
| Solomon Is       | 0 o            | 0 o            | 0 o            | 0 o            | 0 o            | 0 e            | 0 e            | 0 e            | 0 e            | 0 e            |
| Vanuatu          | 1 e            | 1 e            | 1 e            | 1 e            | 1 e            | 1 e            | 1 e            | 1 e            | 1 e            | 2 e            |
| <b>S America</b> | <b>148 546</b> | <b>152 597</b> | <b>162 951</b> | <b>166 691</b> | <b>171 870</b> | <b>176 798</b> | <b>177 339</b> | <b>177 508</b> | <b>179 044</b> | <b>179 988</b> |
| Argentina        | 10 138         | 10 140 o       | 10 202 o       | 10 275 o       | 10 320 o       | 10 342 o       | 10 376 o       | 10 377 o       | 10 390 o       | 10 390 o       |
| Bolivia          | 483            | 484            | 484            | 602            | 735 e          | 735 o          | 736 e          | 736 e          | 736 e          | 736            |
| Brazil           | 89 194 o       | 91 655 o       | 96 934 o       | 100 339 o      | 104 496 o      | 109 162 o      | 109 345 o      | 109 458 o      | 109 802 o      | 109 903 o      |
| Chile            | 6 411 o        | 6 492 o        | 6 625 o        | 6 645 o        | 6 634 o        | 6 679 o        | 6 934 o        | 6 807 o        | 7 289 o        | 7 473 o        |
| Colombia         | 10 900         | 11 501 e       | 11 611 e       | 11 731 o       | 11 842 o       | 11 926 e       | 11 954 e       | 11 949 o       | 12 553 o       | 13 211 o       |
| Ecuador          | 2 248 o        | 2 408 o        | 4 446 o        | 4 516 e        | 5 066 o        | 5 076 o        | 5 098 o        | 5 099 o        | 5 191          | 5 192          |
| Fr Guiana        | 120 o          | 120 e          |
| Guyana           | 2 e            | 2 o            | 2 e            | 2 e            | 2 e            | 2 o            | 2 e            | 2 e            | 2 e            | 2 e            |
| Paraguay         | 8 800          | 8 800          | 8 800          | 8 800          | 8 800          | 8 824          | 8 824          | 8 824          | 8 824          | 8 824          |
| Peru             | 3 651 o        | 4 139 o        | 5 179 o        | 5 113 o        | 5 230 o        | 5 387 o        | 5 406 o        | 5 503 o        | 5 504 o        | 5 504 e        |
| South Georgia    | 0              | 0              | 0              | 0              | 0              | 0              | 0 e            | 0 e            | 0 e            | 0 o            |
| Suriname         | 180 e          |
| Uruguay          | 1 538          | 1 538          | 1 538          | 1 538          | 1 538 o        | 1 538 e        | 1 538 o        | 1 538 e        | 1 538 o        | 1 538 o        |
| Venezuela        | 14 881 e       | 15 138 e       | 16 829 e       | 16 829 e       | 16 906 e       | 16 826 e       | 16 826 e       | 16 914 e       | 16 914 e       | 16 914 e       |

**Renewable hydropower (including mixed plants)**  
**Hydroélectricité renouvelable (y compris les centrales mixtes)**  
**Hidroeléctrica renovable (incluidas las plantas mixtas)**

| PROD (GWh)     | 2014             | 2015             | 2016             | 2017             | 2018             | 2019             | 2020             | 2021             | 2022             |
|----------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| <b>World</b>   | <b>3 893 169</b> | <b>3 894 992</b> | <b>4 037 459</b> | <b>4 087 704</b> | <b>4 208 483</b> | <b>4 253 383</b> | <b>4 369 055</b> | <b>4 296 551</b> | <b>4 330 107</b> |
| <b>Africa</b>  | <b>122 284</b>   | <b>121 307</b>   | <b>118 246</b>   | <b>125 567</b>   | <b>135 415</b>   | <b>142 111</b>   | <b>148 311</b>   | <b>155 558</b>   | <b>160 505</b>   |
| Algeria        | 193              | 145              | 72               | 56 o             | 117 o            | 152 o            | 50 o             | 9 o              | 16 o             |
| Angola         | 5 040 e          | 5 040 e          | 6 286 e          | 8 844 e          | 11 323 e         | 12 562 e         | 13 802 e         | 13 802 e         | 13 802 e         |
| Benin          | 1                | 0                | 0 e              | 0                | 0                | 0                | 0 e              | 0 o              | 0 o              |
| Burkina Faso   | 90 o             | 93 o             | 139 o            | 128 o            | 91 o             | 105 e            | 112 e            | 127 e            | 82 o             |
| Burundi        | 180 e            | 173 e            | 175 e            | 182 e            | 240 e            | 264 e            | 270 e            | 256 e            | 256 e            |
| Cameroon       | 4 373 e          | 4 373 e          | 4 359 e          | 4 753 e          | 5 033 e          | 5 026 e          | 5 233 e          | 5 233 e          | 5 233 e          |
| Cent Afr Rep   | 140 e            | 138 e            | 131 e            | 141 e            |
| Comoros        | 5 e              |                  |                  |                  |                  |                  |                  |                  |                  |
| Congo DR       | 8 720 o          | 8 767            | 8 828 e          | 9 406 e          | 10 517 e         | 11 497 e         | 12 564 o         | 13 242 o         | 13 303 o         |
| Congo Rep      | 1 038 o          | 1 098 o          | 1 132 o          | 1 203 o          | 1 046 o          | 1 046 e          | 1 046 e          | 1 046 e          | 1 046 e          |
| Cote d'Ivoire  | 1 914 o          | 1 353 o          | 1 529 o          | 2 047 o          | 2 962 o          | 3 481 o          | 3 376 o          | 2 627 o          | 2 864 o          |
| Egypt          | 13 352           | 13 822           | 13 545 o         | 12 850 o         | 12 726 o         | 13 121 o         | 15 038 o         | 14 646 e         | 15 458 o         |
| Eq Guinea      | 127              | 127              | 127 e            |
| Eswatini       | 290 e            | 252 e            | 154 e            | 124 e            | 189 e            | 225 e            | 231 e            | 259 e            | 297 e            |
| Ethiopia       | 6 823 e          | 9 019 e          | 9 674            | 11 753           | 12 681           | 13 655           | 14 404           | 14 943           | 14 882           |
| Gabon          | 795 e            | 919 e            | 822 e            | 915 e            | 982 e            |
| Ghana          | 8 387 o          | 5 844 o          | 5 561 o          | 5 616 o          | 6 017 o          | 7 252 o          | 7 293 o          | 7 521 o          | 8 192 o          |
| Guinea         | 435 o            | 887 e            | 1 084 e          | 1 212 o          | 1 191 o          | 1 289 e          | 1 493 e          | 2 645 e          | 2 947 e          |
| Kenya          | 3 680 e          | 3 601 e          | 3 629 e          | 3 373 e          | 3 574 e          | 3 808 e          | 4 021 e          | 3 861 e          | 3 100 e          |
| Lesotho        | 521 e            | 533 e            | 511              | 502              | 516              | 392              | 426              | 531              | 480 o            |
| Liberia        | 25 e             | 25 e             | 25 e             | 128 e            | 128 e            | 128 e            | 128 e            | 128 e            | 128 e            |
| Madagascar     | 833 e            | 965 e            | 917 e            | 815 e            | 1 000 e          | 920 e            | 850 e            | 800 e            | 855 e            |
| Malawi         | 1 964 e          | 1 954 e          | 1 894 e          | 1 586 e          | 1 425 e          | 1 675 e          | 1 676 e          | 1 694 e          | 1 694 e          |
| Mali           | 1 498 e          | 1 529 e          | 1 645 e          | 1 702 e          |
| Mauritius      | 92 e             | 123 e            | 101 e            | 91 e             | 126 e            | 100 e            | 117 e            | 108 e            | 130 e            |
| Morocco        | 1 637            | 1 885            | 1 256            | 1 185 o          | 1 693 o          | 1 263 o          | 868              | 818              | 350              |
| Mozambique     | 16 187 e         | 17 091 e         | 15 615 e         | 14 067 e         | 13 910 e         | 14 829 e         | 15 714 e         | 15 477 e         | 16 184 e         |
| Namibia        | 1 494 o          | 1 431 o          | 1 477 o          | 1 370 o          | 1 049 o          | 1 230 o          | 1 237 e          | 875 e            | 1 052 e          |
| Nigeria        | 6 144 o          | 6 423 e          | 8 150 e          | 7 747 e          | 7 695 e          | 8 433 e          | 7 872 e          | 9 154 e          | 9 235 e          |
| Reunion        | 426 o            | 496 o            | 465 o            | 422 o            | 601 o            | 418 o            | 423 o            | 358 o            | 634 o            |
| Rwanda         | 296 o            | 330 o            | 331 e            | 309 e            | 336 e            | 400 e            | 522 e            | 557 e            | 516 e            |
| Sao Tome Prn   | 8 o              | 7 o              | 6 o              | 5 o              | 5 o              | 6 o              | 6 o              | 6 o              | 6 e              |
| Sierra Leone   | 179 e            | 189 e            | 219 e            | 228 e            |
| South Africa   | 918 e            | 750 e            | 627 e            | 697 e            | 970 e            | 794 e            | 1 234 e          | 1 804 e          | 3 303 e          |
| Sudan          | 8 913            | 8 420            | 8 051            | 9 347            | 9 657 o          | 10 210 o         | 11 008 o         | 10 061 o         | 10 061 e         |
| Tanzania       | 2 631 e          | 2 162 e          | 2 442 e          | 2 430 e          | 2 314 e          | 2 561 e          | 3 229 e          | 3 231 e          | 3 232 e          |
| Togo           | 120 o            | 56 o             | 204 o            | 204 e            | 100 o            | 125 o            | 75 o             | 86 o             | 18 o             |
| Tunisia        | 56 o             | 70 o             | 45 o             | 17 o             | 17 o             | 66 o             | 46 o             | 28 o             | 15 o             |
| Uganda         | 3 248 e          | 3 103 e          | 3 237 e          | 3 386 e          | 3 583 e          | 3 984 e          | 4 006 e          | 4 279 e          | 4 848 e          |
| Zambia         | 14 044 o         | 13 063 o         | 11 087 o         | 12 514 o         | 13 765 o         | 12 404 o         | 12 879 o         | 16 147 o         | 17 130 o         |
| Zimbabwe       | 5 466 e          | 5 047 e          | 2 692 e          | 4 085 e          | 5 635 e          | 5 509 e          | 3 881 e          | 6 018 e          | 5 974 e          |
| <b>Asia</b>    | <b>1 517 334</b> | <b>1 573 781</b> | <b>1 642 577</b> | <b>1 688 397</b> | <b>1 733 601</b> | <b>1 796 452</b> | <b>1 875 449</b> | <b>1 868 553</b> | <b>1 905 018</b> |
| Afghanistan    | 968 e            | 1 001 e          | 1 025 e          | 1 043 e          | 882 e            | 1 221 e          | 988 e            | 850 e            | 738 e            |
| Bangladesh     | 607 u            | 802 u            | 1 021 u          | 1 051 u          | 915 u            | 812 u            | 777 o            | 734 o            | 711 o            |
| Bhutan         | 7 164 o          | 7 747 o          | 7 959            | 7 721 o          | 6 959 o          | 8 646 o          | 11 370 o         | 10 822 o         | 10 771 o         |
| Cambodia       | 1 852 o          | 2 160 o          | 2 568 o          | 2 711 o          | 4 737 o          | 4 025 o          | 3 860 o          | 5 044 o          | 5 898 o          |
| China          | 10 515 150       | 11 114 515       | 11 625 589       | 11 655 117 o     | 11 988 900       | 12 725 540 o     | 13 220 010       | 13 000 600       | 13 039 900       |
| China HK SAR   | 2                | 2                | 2                | 3                | 3                | 3                | 2                | 2 e              | 2 e              |
| Chinese Taipei | 4 318 o          | 4 470 o          | 6 562 o          | 5 447 o          | 4 482 o          | 5 545 o          | 3 019 o          | 3 475 o          | 5 837 o          |
| India          | 135 865 e        | 130 562 e        | 125 211 e        | 126 402 e        | 131 693 e        | 144 594 e        | 159 726 e        | 156 601 e        | 160 573 e        |
| Indonesia      | 15 201 e         | 13 780 e         | 18 728 e         | 18 683 e         | 21 637 o         | 21 161 o         | 24 325 o         | 24 697 o         | 27 295 o         |
| Japan          | 83 532           | 87 118           | 79 484           | 83 795           | 80 969           | 79 993           | 78 807           | 78 792           | 77 235           |
| Kazakhstan     | 8 263            | 9 269            | 11 621           | 11 210           | 10 395           | 9 994            | 9 660            | 9 208 e          | 9 142 e          |
| Korea DPR      | 13 650           | 10 000 o         | 12 800 o         | 11 900 o         | 12 800 o         | 11 000 o         | 12 800           | 16 100 o         | 16 600 u         |
| Korea Rep      | 2 752            | 2 146            | 2 847            | 2 820            | 3 359            | 2 791            | 3 877            | 3 054            | 3 541            |
| Kyrgyzstan     | 13 298           | 11 093           | 11 498           | 14 204           | 14 318           | 13 859           | 13 979           | 12 957 o         | 11 929 e         |
| Lao PDR        | 15 749 e         | 16 732 e         | 24 868 e         | 31 066 e         | 33 742 e         | 28 980 e         | 32 792 e         | 36 738 e         | 38 854 e         |
| Malaysia       | 13 541 e         | 15 525 e         | 20 358 e         | 26 717 e         | 26 296 e         | 26 281 e         | 27 302 e         | 27 302 e         | 27 302 e         |
| Mongolia       | 68 e             | 61 e             | 87 e             | 86               | 81               | 87               | 85               | 85 o             | 64 o             |
| Myanmar        | 10 298 e         | 10 639 e         | 12 126 e         | 13 212 e         | 14 648 e         | 12 897 e         | 11 176 e         | 11 892 e         | 11 455 e         |
| Nepal          | 3 609 e          | 3 588 e          | 3 825 e          | 4 423 e          | 4 745 e          | 5 521 e          | 6 186 e          | 7 918 e          | 10 176 e         |
| Pakistan       | 32 594 e         | 33 860 e         | 33 440 e         | 30 419 e         | 30 636 e         | 35 987 e         | 39 238 e         | 37 533 e         | 36 218 e         |
| Philippines    | 8 463 e          | 7 943 e          | 7 389 e          | 8 889 e          | 8 662 e          | 7 303 e          | 6 470            | 8 463 e          | 9 363 e          |
| Sri Lanka      | 4 560 e          | 5 996 e          | 4 245 e          | 4 028 e          | 6 408 e          | 4 819 e          | 4 984 e          | 7 234 e          | 6 767 e          |
| Tajikistan     | 16 312           | 16 900           | 16 803           | 17 312           | 18 573           | 19 348           | 19 348 e         | 19 348 e         | 19 879 e         |
| Thailand       | 4 803 e          | 3 360 e          | 3 137 e          | 4 322 e          | 7 268 e          | 5 930 e          | 4 169 e          | 4 169 e          | 6 340 e          |
| Timor Leste    | 2 e              | 2 e              | 2 e              | 2 e              | 2 e              | 2 e              | 2 e              | 3 e              | 3 e              |
| Turkmenistan   | 3 e              | 3 e              | 3 e              | 3 e              | 3                | 3 e              | 3 e              | 3 e              | 3 e              |
| Uzbekistan     | 8 100            | 8 100            | 8 100            | 8 100            | 5 897            | 6 452            | 5 000            | 5 000 o          | 6 500 e          |
| Viet Nam       | 60 615 e         | 56 408 e         | 64 280 e         | 87 712 e         | 84 602 e         | 66 655 e         | 73 495 o         | 79 932 e         | 97 927 e         |

**Renewable hydropower (including mixed plants)**  
**Hydroélectricité renouvelable (y compris les centrales mixtes)**  
**Hidroeléctrica renovable (incluidas las plantas mixtas)**

| PROD (GWh)               | 2014           | 2015           | 2016           | 2017           | 2018           | 2019           | 2020           | 2021           | 2022           |
|--------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| <b>C America + Carib</b> | <b>23 257</b>  | <b>23 822</b>  | <b>24 553</b>  | <b>29 717</b>  | <b>27 188</b>  | <b>23 127</b>  | <b>28 785</b>  | <b>31 795</b>  | <b>33 543</b>  |
| Belize                   | 257            | 236            | 261 o          | 282 o          | 250 o          | 75 o           | 242            | 158 e          | 239            |
| Costa Rica               | 6 719 o        | 8 068 o        | 8 028 o        | 8 679 o        | 8 345 o        | 7 828 o        | 8 296 o        | 9 287 o        | 9 450 o        |
| Cuba                     | 104            | 48             | 64 o           | 83 o           | 146 o          | 128 e          | 115 o          | 123 e          | 124 e          |
| Dominica                 | 31             | 24             | 36 o           | 27 o           | 24 o           | 20 o           | 19 o           | 20 o           | 23             |
| Dominican Rep            | 1 271 o        | 945 o          | 1 519 o        | 2 196 o        | 1 780          | 1 060 o        | 1 293 o        | 1 501 o        | 1 465 o        |
| El Salvador              | 1 790 o        | 1 424 o        | 1 344 o        | 1 706 o        | 1 632 o        | 1 528 o        | 2 074 o        | 1 825 o        | 2 242          |
| Guadeloupe               | 27             | 21             | 34 e           | 38 o           | 40 o           | 44 o           | 25             | 11 o           | 12 o           |
| Guatemala                | 4 825 o        | 3 852 o        | 3 951 o        | 5 765 o        | 5 191          | 4 381          | 5 817 o        | 5 960 o        | 6 942 o        |
| Haiti                    | 90             | 83             | 71             | 127 o          | 197 o          | 200 o          | 200 o          | 200 e          | 200 o          |
| Honduras                 | 2 615 o        | 2 358 o        | 2 241 o        | 2 970 o        | 3 239 o        | 2 421 o        | 2 697 o        | 3 760 o        | 3 878 o        |
| Jamaica                  | 133 o          | 125 o          | 115 o          | 150 o          | 176 o          | 153 o          | 134 o          | 138 o          | 119            |
| Martinique               |                |                |                |                | 0              | 0              |                |                |                |
| Nicaragua                | 396 o          | 295 o          | 427 o          | 468 o          | 411 o          | 226 o          | 574 o          | 598 o          | 649 o          |
| Panama                   | 4 907 o        | 6 268 o        | 6 375 o        | 7 155 o        | 5 696 o        | 5 000 o        | 7 226 o        | 8 154 o        | 8 134 o        |
| Puerto Rico              | 81 o           | 56 o           | 71 o           | 51 o           | 38 o           | 41 o           | 51 o           | 40 o           | 45 o           |
| St Vincent Gren          | 12 o           | 17 o           | 16 o           | 20 o           | 24 o           | 22 o           | 22 o           | 19 o           | 19 e           |
| <b>Eurasia</b>           | <b>228 819</b> | <b>248 689</b> | <b>266 665</b> | <b>257 669</b> | <b>266 330</b> | <b>297 606</b> | <b>302 691</b> | <b>284 687</b> | <b>282 016</b> |
| Armenia                  | 1 993          | 2 206          | 2 351          | 2 269 o        | 2 318 o        | 2 371 o        | 1 778 o        | 2 202 o        | 2 846 o        |
| Azerbaijan               | 1 300          | 1 638          | 1 959 o        | 1 746          | 1 768          | 1 565          | 1 070          | 1 277 o        | 1 596 e        |
| Georgia                  | 8 335          | 8 454          | 9 329          | 9 210          | 9 949          | 8 932          | 8 248 e        | 10 182         | 10 771 e       |
| Russian Fed              | 176 547        | 169 247        | 185 794        | 186 225        | 192 356        | 195 916        | 213 501        | 215 099 e      | 200 000 e      |
| Türkiye                  | 40 645         | 67 146         | 67 231         | 58 218         | 59 938         | 88 823         | 78 094         | 55 927         | 66 802 o       |
| <b>Europe</b>            | <b>596 243</b> | <b>562 627</b> | <b>578 251</b> | <b>520 358</b> | <b>578 138</b> | <b>534 132</b> | <b>575 393</b> | <b>585 685</b> | <b>486 360</b> |
| Albania                  | 4 724          | 5 895          | 7 782          | 4 525          | 8 552          | 5 184          | 5 281          | 8 922          | 6 842          |
| Andorra                  | 113 o          | 86 o           | 84 o           | 85 o           | 114 o          | 137 o          | 121 o          | 79 o           | 67 o           |
| Austria                  | 41 007         | 37 157         | 39 971         | 38 294         | 37 638         | 40 826         | 41 998         | 38 751         | 34 705         |
| Belarus                  | 121            | 107            | 142            | 405            | 324            | 351            | 399            | 370            | 372 e          |
| Belgium                  | 292            | 318            | 370            | 270            | 292            | 302            | 267            | 418            | 271            |
| Bosnia Herzg             | 5 935          | 5 537          | 5 595          | 3 790          | 6 418          | 6 101          | 4 580          | 6 690          | 4 712          |
| Bulgaria                 | 4 602          | 5 655          | 3 880          | 2 828          | 5 147          | 2 929          | 2 820          | 4 819          | 3 803          |
| Croatia                  | 9 006          | 6 391          | 6 852          | 5 307          | 7 701          | 5 826          | 5 662          | 7 128          | 5 460          |
| Czechia                  | 1 909          | 1 795          | 2 000          | 1 869          | 1 629          | 2 008          | 2 144          | 2 409          | 2 093          |
| Denmark                  | 15             | 18             | 19             | 18             | 15             | 17             | 17             | 16             | 15             |
| Estonia                  | 27 u           | 27 u           | 35             | 26 u           | 15             | 19             | 30             | 23             | 23             |
| Faroe Islands            | 121 o          | 133 o          | 106 o          | 111 o          | 108 o          | 104            | 109 o          | 100 o          | 131 o          |
| Finland                  | 13 397         | 16 769         | 15 799         | 14 771         | 13 301         | 12 420         | 15 883         | 15 791         | 13 492         |
| France                   | 63 773         | 55 556         | 60 839         | 50 001         | 65 111         | 56 914         | 62 594         | 59 616         | 45 521         |
| Germany                  | 19 587         | 18 976         | 20 546         | 20 150         | 17 693         | 19 731         | 18 721         | 19 657         | 17 625         |
| Greece                   | 4 478          | 6 098          | 5 543          | 3 963          | 5 743          | 4 000          | 3 344          | 5 903          | 3 855          |
| Hungary                  | 301            | 234            | 259            | 220            | 222            | 219            | 244            | 212            | 178            |
| Iceland                  | 12 873         | 13 781         | 13 470         | 14 059         | 13 814         | 13 461         | 13 157         | 13 804         | 14 196 u       |
| Ireland                  | 709            | 806            | 681            | 692            | 694            | 887            | 933            | 749            | 701            |
| Italy                    | 58 545         | 45 537         | 42 432         | 36 199         | 48 786         | 46 319         | 47 552         | 45 388         | 28 398         |
| Kosovo*                  | 151            | 140            | 245            | 179            | 273            | 213            | 263            | 297            | 260            |
| Latvia                   | 1 994          | 1 860          | 2 530          | 4 381          | 2 432          | 2 108          | 2 603          | 2 708          | 2 750          |
| Lithuania                | 399            | 349            | 454            | 602            | 431            | 345            | 301            | 384            | 464            |
| Luxembourg               | 108            | 99             | 115            | 86             | 93             | 107            | 92             | 107            | 64             |
| Moldova Rep              | 320            | 269            | 230            | 285            | 272 e          | 298 e          | 273 e          | 313 e          | 274 e          |
| Montenegro               | 1 752          | 1 491          | 1 843          | 1 024          | 2 113          | 1 634          | 1 448          | 2 010          | 1 444          |
| Netherlands              | 112            | 93             | 100            | 61             | 72             | 74             | 46             | 88             | 50             |
| North Macedonia          | 1 207          | 1 865          | 1 897          | 1 110          | 1 791          | 1 164          | 1 277          | 1 452          | 1 345          |
| Norway                   | 135 470        | 137 302        | 142 807        | 142 366        | 138 981        | 125 289        | 141 805        | 143 965 o      | 128 240 o      |
| Poland                   | 2 182          | 1 832          | 2 139          | 2 560          | 1 970          | 1 958          | 2 118          | 2 339          | 1 968 o        |
| Portugal                 | 15 569         | 8 661          | 15 723         | 5 897          | 12 393         | 8 818          | 12 083         | 11 908         | 6 536          |
| Romania                  | 18 805         | 16 632         | 18 028         | 14 494         | 17 664         | 15 581         | 15 381         | 17 412         | 13 977 o       |
| Serbia                   | 11 003         | 10 080         | 10 792         | 9 153          | 10 640         | 9 457          | 9 034          | 11 284         | 8 649 o        |
| Slovakia                 | 4 209          | 3 866          | 4 359          | 4 324          | 3 590          | 4 356          | 4 517          | 4 258          | 3 678 o        |
| Slovenia                 | 6 092          | 3 807          | 4 503          | 3 868          | 4 704          | 4 479          | 4 934          | 4 713          | 3 149 o        |
| Spain                    | 39 168         | 28 140         | 36 395         | 18 322         | 34 334         | 24 646         | 30 507         | 29 626         | 17 590 o       |
| Sweden                   | 63 763         | 75 312         | 62 018         | 65 143         | 62 210         | 65 371         | 72 389         | 73 885         | 69 871 o       |
| Switzerland              | 38 036         | 38 258         | 34 623         | 34 092         | 34 985         | 38 040         | 37 869         | 36 964         | 29 900 u       |
| UK                       | 5 888          | 6 298          | 5 370          | 5 882 u        | 5 444 u        | 5 933 u        | 6 869 u        | 5 398 u        | 5 640 u        |
| Ukraine                  | 8 478          | 5 397          | 7 671          | 8 946          | 10 428         | 6 508          | 5 729          | 5 729 e        | 8 051 e        |
| <b>European Union</b>    | <b>371 007</b> | <b>337 004</b> | <b>346 532</b> | <b>295 375</b> | <b>345 064</b> | <b>321 135</b> | <b>348 065</b> | <b>349 263</b> | <b>277 480</b> |
| <b>Middle East</b>       | <b>19 399</b>  | <b>17 605</b>  | <b>21 145</b>  | <b>18 436</b>  | <b>18 710</b>  | <b>37 706</b>  | <b>27 968</b>  | <b>18 473</b>  | <b>17 809</b>  |
| Iran IR                  | 13 862         | 14 087         | 16 419         | 15 051 o       | 15 765 o       | 31 003 o       | 22 007 o       | 13 683 o       | 13 683 e       |
| Iraq                     | 2 933 e        | 2 548 e        | 3 374 e        | 2 178 e        | 1 820 o        | 4 966 o        | 4 164 e        | 3 348 e        | 2 653 e        |
| Israel                   | 13 e           | 25 e           |                |                |                |                |                |                |                |
| Jordan                   | 58 o           | 53 o           | 42 o           | 38 o           | 23 o           | 18 o           | 18 o           | 18 o           | 19 o           |
| Lebanon                  | 193 o          | 479 o          | 382 o          | 415 o          | 348 o          | 965 o          | 1 025 o        | 670 e          | 700 e          |
| Syrian AR                | 2 340 o        | 413 o          | 929 o          | 754 o          | 754 e          |

**Renewable hydropower (including mixed plants)**  
**Hydroélectricité renouvelable (y compris les centrales mixtes)**  
**Hidroeléctrica renovable (incluidas las plantas mixtas)**

| PROD (GWh)       | 2014           | 2015           | 2016           | 2017           | 2018           | 2019           | 2020           | 2021           | 2022           |
|------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| <b>N America</b> | <b>683 225</b> | <b>664 411</b> | <b>686 163</b> | <b>729 280</b> | <b>714 301</b> | <b>695 656</b> | <b>700 893</b> | <b>670 632</b> | <b>690 536</b> |
| Canada           | 382 463        | 382 155        | 385 394        | 394 548        | 385 856 o      | 381 732 o      | 386 506        | 383 852 o      | 397 616 o      |
| Greenland        | 396 o          | 423 o          | 401 o          | 388            | 418            | 409            | 430            | 433            | 467            |
| Mexico           | 38 893         | 30 815         | 30 698         | 31 982 o       | 32 526 o       | 23 716 o       | 26 817 o       | 32 869 o       | 35 851 o       |
| USA              | 261 473        | 251 018        | 269 670        | 302 362 o      | 295 501 o      | 289 799 o      | 287 140 o      | 253 478 o      | 256 602 o      |
| <b>Oceania</b>   | <b>44 426</b>  | <b>39 624</b>  | <b>42 721</b>  | <b>43 036</b>  | <b>44 008</b>  | <b>43 269</b>  | <b>41 123</b>  | <b>41 179</b>  | <b>44 787</b>  |
| Australia        | 18 338         | 13 324         | 15 021         | 16 037         | 15 804         | 15 602         | 14 764         | 14 761         | 16 297         |
| Fiji             | 401 e          | 406 e          | 496 e          | 492 e          | 567 e          | 560 e          | 559 e          | 548 e          | 599 e          |
| Fr Polynesia     | 167 o          | 167 o          | 184 o          | 176 o          | 165 o          | 160 o          | 161 o          | 144 o          | 192 o          |
| Micronesia       | 1 e            | 1 e            | 1 e            | 1 e            | 1 e            | 1 e            | 1 e            | 1 e            | 1 e            |
| New Caledon      | 289 o          | 340 o          | 232 o          | 361 o          | 317 o          | 285 o          | 305 o          | 425 o          | 539            |
| New Zealand      | 24 316         | 24 528         | 25 933         | 25 173         | 26 252         | 25 596         | 24 266         | 24 232         | 26 274         |
| Papua N Guin     | 875 e          | 817 e          | 817 e          | 753 e          | 847 e          | 1 011 e        | 1 011 e        | 1 011 e        | 847 o          |
| Samoa            | 30 o           | 33 o           | 30 o           | 35 o           | 46 o           | 45             | 47             | 47             | 29             |
| Solomon Is       | 0 e            | 0 e            | 1 e            | 1 e            | 1 e            | 1 e            | 1 e            | 1 e            | 1 e            |
| Vanuatu          | 8 e            | 7 e            | 5 e            | 7 e            | 8 e            | 8 e            | 9              | 8 e            | 9 e            |
| <b>S America</b> | <b>658 182</b> | <b>643 126</b> | <b>657 139</b> | <b>675 243</b> | <b>690 792</b> | <b>683 325</b> | <b>668 442</b> | <b>639 989</b> | <b>709 533</b> |
| Argentina        | 32 667 o       | 32 268 o       | 29 704 o       | 31 783 e       | 32 290 e       | 27 515 e       | 23 679 e       | 19 657 e       | 22 779 e       |
| Bolivia          | 2 251          | 2 463          | 1 720          | 2 234 o        | 2 612 o        | 3 251 o        | 2 942 o        | 3 237          | 2 852          |
| Brazil           | 373 439 o      | 359 743 o      | 380 911 o      | 370 907 o      | 388 971 o      | 397 877 o      | 396 381 o      | 362 819        | 427 114 o      |
| Chile            | 23 258         | 23 925         | 23 435         | 21 370         | 23 427         | 22 507 u       | 21 931 u       | 19 348 u       | 20 684 u       |
| Colombia         | 47 870 o       | 48 569 o       | 49 097 o       | 61 441 o       | 59 934 u       | 54 595 u       | 49 978 u       | 62 337         | 62 259         |
| Ecuador          | 11 458 o       | 13 096         | 15 834 o       | 20 089 o       | 20 678 o       | 24 641 o       | 24 324 o       | 25 563 o       | 24 635 o       |
| Fr Guyana        | 505 e          | 498 e          | 440 e          | 568 e          | 540 e          | 414 e          | 437 e          | 586 e          | 596 e          |
| Guyana           | 4 e            | 4 e            | 4 e            | 4 e            | 4 e            | 4 e            | 4 e            | 4 e            | 4 e            |
| Paraguay         | 55 276         | 55 743         | 63 770         | 59 684         | 59 211         | 49 445         | 46 371         | 40 574         | 43 879         |
| Peru             | 20 876 o       | 23 585 o       | 20 876 o       | 28 921 o       | 30 548 o       | 31 323 o       | 30 475 o       | 31 890 o       | 29 708 o       |
| South Georgia    | 1 e            | 1              | 1              | 0              | 1              | 1              | 1 e            | 1 e            | 1 e            |
| Suriname         | 559 e          | 472 e          | 783 e          | 926 e          | 1 000 e        | 953 e          | 674 e          | 847 e          | 847 e          |
| Uruguay          | 9 649 o        | 7 855 o        | 7 601 o        | 7 277 o        | 6 290 o        | 8 007 o        | 4 051 o        | 5 277 o        | 5 659 o        |
| Venezuela        | 80 367 e       | 74 906 e       | 62 962 e       | 70 039 e       | 65 285 e       | 62 793 o       | 67 194 o       | 67 849 o       | 68 515         |

**Pure pumped storage**  
**Accumulation par pompage**  
**Hidroeléctrica de bombeo pura**

| CAP (MW)                 | 2014           | 2015           | 2016           | 2017           | 2018           | 2019           | 2020           | 2021           | 2022           | 2023           |
|--------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| <b>World</b>             | <b>109 471</b> | <b>111 902</b> | <b>116 995</b> | <b>119 844</b> | <b>120 366</b> | <b>120 612</b> | <b>122 319</b> | <b>127 223</b> | <b>136 654</b> | <b>142 121</b> |
| <b>Africa</b>            | <b>1 864</b>   | <b>1 864</b>   | <b>2 863</b>   | <b>3 196</b>   |
| Morocco                  | 464            | 464            | 464            | 464 o          | 464            | 464 e          | 464 e          | 464 e          | 464 o          | 464 e          |
| South Africa             | 1 400 u        | 1 400 u        | 2 399 u        | 2 732 u        | 2 732 e        | 2 732 e        | 2 732 e        | 2 732 u        | 2 732 e        | 2 732 u        |
| <b>Asia</b>              | <b>57 218</b>  | <b>58 338</b>  | <b>61 971</b>  | <b>64 671</b>  | <b>65 271</b>  | <b>65 571</b>  | <b>66 771</b>  | <b>71 671</b>  | <b>81 071</b>  | <b>86 221</b>  |
| China                    | 22 110         | 23 030         | 26 690         | 29 390 e       | 29 990         | 30 290         | 31 490         | 36 390         | 45 790         | 50 940         |
| Chinese Taipei           | 2 602 o        |
| India                    | 4 786 o        | 4 786 o        | 4 786 o        | 4 786 e        |
| Japan                    | 21 724         | 21 924         | 21 897         | 21 897         | 21 897         | 21 897         | 21 897         | 21 897         | 21 897         | 21 897 o       |
| Korea Rep                | 4 700          | 4 700          | 4 700          | 4 700 o        |
| Mongolia                 | 0              | 0              | 0              | 0              | 0              | 0 e            | 0              | 0              | 0              | 0 e            |
| Philippines              | 736 o          | 736 e          | 736 o          | 736 o          | 736 o          |
| Thailand                 | 560 o          | 560 e          | 560 e          | 560 e          |
| <b>C America + Carib</b> |                |                |                |                | <b>6</b>       | <b>6</b>       | <b>6</b>       | <b>6</b>       | <b>6</b>       | <b>6</b>       |
| Honduras                 |                |                |                |                | 6 o            | 6 o            | 6 o            | 6 o            | 6 o            | 6 o            |
| <b>Eurasia</b>           | <b>1 216</b>   | <b>1 356</b>   | <b>1 356</b>   | <b>1 356</b>   |
| Russian Fed              | 1 216          | 1 216          | 1 216          | 1 216          | 1 216          | 1 216          | 1 216          | 1 356 e        | 1 356          | 1 356 e        |
| <b>Europe</b>            | <b>28 199</b>  | <b>28 380</b>  | <b>28 680</b>  | <b>28 464</b>  | <b>28 360</b>  | <b>28 360</b>  | <b>28 365</b>  | <b>28 689</b>  | <b>28 676</b>  | <b>28 871</b>  |
| Austria                  |                |                |                |                |                |                |                |                |                |                |
| Belgium                  | 1 307          | 1 307          | 1 307          | 1 307          | 1 307          | 1 307          | 1 307          | 1 307          | 1 307          | 1 307 o        |
| Bosnia Herzg             | 420 o          | 420 o          | 420 o          | 420 o          | 420 e          | 420 o          | 420 o          | 420 o          | 420            | 420 o          |
| Bulgaria                 | 864            | 864            | 864            | 864            | 864            | 864            | 864            | 864            | 864            | 864 e          |
| Czechia                  | 1 172          | 1 172          | 1 172          | 1 172          | 1 172          | 1 172          | 1 172 o        | 1 172          | 1 172          | 1 172 u        |
| France                   | 1 728          | 1 728          | 1 728          | 1 728          | 1 728 o        | 1 728          | 1 728          | 1 728          | 1 728          | 1 742 o        |
| Germany                  | 5 654          | 5 666          | 5 578          | 5 493          | 5 355          | 5 355          | 5 354          | 5 354          | 5 353          | 5 423 o        |
| Ireland                  | 292            | 292            | 292            | 292            | 292            | 292            | 292            | 292            | 292            | 292 e          |
| Italy                    | 3 982          | 3 982          | 3 982          | 3 940          | 3 940 o        | 3 940          | 3 940          | 3 940          | 3 928          | 4 039 o        |
| Lithuania                | 760            | 760            | 760            | 760            | 760            | 760            | 760            | 760            | 760            | 760 o          |
| Luxembourg               | 1 296          | 1 296          | 1 296          | 1 296 e        | 1 296 e        | 1 296 e        | 1 296          | 1 296          | 1 296          | 1 296 o        |
| Poland                   | 1 406          | 1 406          | 1 413          | 1 423          | 1 423          | 1 423          | 1 423          | 1 423          | 1 423          | 1 423 e        |
| Romania                  | 92             | 92             | 92             | 92             | 92             | 92             | 92             | 92             | 92             | 92 e           |
| Serbia                   | 614            | 614            | 614            | 614            | 614 o          | 614 e          | 614 e          | 614 e          | 614            | 614 e          |
| Slovakia                 | 916            | 916            | 916            | 916 e          | 916            | 916 e          | 916 e          | 916 e          | 916            | 916 e          |
| Slovenia                 | 180            | 180            | 180            | 180 e          | 180            | 180 e          | 180            | 180 o          | 180            | 180 e          |
| Spain                    | 3 331          | 3 331          | 3 331          | 3 331          | 3 331          | 3 331          | 3 331          | 3 331          | 3 331          | 3 331 o        |
| Sweden                   | 99             | 99             | 99             |                |                |                |                |                |                |                |
| Switzerland              | 456            | 469            | 527            | 527 e          | 562            | 562            | 562 e          | 562 o          | 562            | 562 e          |
| UK                       | 2 444          | 2 600          | 2 600          | 2 600          | 2 600          | 2 600 o        | 2 600 o        | 2 600 o        | 2 600          | 2 600          |
| Ukraine                  | 1 186          | 1 186          | 1 509          | 1 509 o        | 1 509 o        | 1 509 e        | 1 515          | 1 839          | 1 839          | 1 839 e        |
| <b>European Union</b>    | <b>23 079</b>  | <b>23 091</b>  | <b>23 010</b>  | <b>22 794</b>  | <b>22 655</b>  | <b>22 655</b>  | <b>22 654</b>  | <b>22 654</b>  | <b>22 641</b>  | <b>22 836</b>  |
| <b>Middle East</b>       | <b>240</b>     | <b>1 280</b>   | <b>1 580</b>   | <b>1 580</b>   | <b>1 580</b>   | <b>1 580</b>   |
| Iran IR                  |                | 1 040          | 1 040          | 1 040          | 1 040 o        | 1 040 e        | 1 040 e        | 1 040 o        | 1 040 e        | 1 040 e        |
| Iraq                     | 240            | 240            | 240 e          |
| Israel                   |                |                |                |                |                | 300 u          | 300 e          | 300 e          | 300 e          | 300 e          |
| <b>N America</b>         | <b>18 950</b>  | <b>19 040</b>  | <b>19 201</b>  | <b>19 233</b>  | <b>19 253</b>  | <b>19 199</b>  | <b>19 401</b>  | <b>18 941</b>  | <b>18 985</b>  | <b>19 108</b>  |
| Canada                   | 174            | 174            | 174 o          | 174 e          | 174 e          | 174 o          | 174 o          | 174 o          | 174 o          | 174 e          |
| USA                      | 18 776         | 18 866         | 19 027         | 19 059         | 19 079         | 19 025         | 19 227 o       | 18 767 o       | 18 811 o       | 18 934 o       |
| <b>Oceania</b>           | <b>810</b>     |
| Australia                | 810            | 810            | 810            | 810            | 810            | 810 o          | 810 o          | 810 o          | 810 e          | 810 e          |
| <b>S America</b>         | <b>974</b>     |
| Argentina                | 974 o          |

**Pure pumped storage**  
**Accumulation par pompage**  
**Hidroeléctrica de bombeo pura**

| PROD (GWh)               | 2014          | 2015          | 2016           | 2017           | 2018           | 2019           | 2020           | 2021           | 2022           |
|--------------------------|---------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| <b>World</b>             | <b>92 254</b> | <b>94 031</b> | <b>114 411</b> | <b>121 016</b> | <b>117 466</b> | <b>114 164</b> | <b>120 106</b> | <b>124 571</b> | <b>141 345</b> |
| <b>Africa</b>            | <b>3 446</b>  | <b>3 362</b>  | <b>3 607</b>   | <b>4 563</b>   | <b>4 867</b>   | <b>5 334</b>   | <b>5 284</b>   | <b>5 150</b>   | <b>5 001</b>   |
| Morocco                  | 396           | 396           | 407            | 380 o          | 304 o          | 391 o          | 422            | 394            | 329            |
| South Africa             | 3 051 u       | 2 966 u       | 3 200 u        | 4 183 u        | 4 562 e        | 4 943 u        | 4 861 u        | 4 756 e        | 4 672          |
| <b>Asia</b>              | <b>30 926</b> | <b>32 777</b> | <b>50 227</b>  | <b>53 765</b>  | <b>53 745</b>  | <b>52 411</b>  | <b>54 556</b>  | <b>61 485</b>  | <b>70 065</b>  |
| China                    | 13 190        | 15 755        | 30 781         | 32 753         | 32 900         | 31 900 o       | 33 200 e       | 38 400 e       | 48 300 e       |
| Chinese Taipei           | 3 121 o       | 3 035 o       | 3 294 o        | 3 334 o        | 3 371 o        | 3 208 o        | 3 159 o        | 3 184 o        | 3 062 o        |
| India                    | 4 949 e       | 4 949 e       | 4 949 e        | 4 949 e        | 4 949 o        | 4 949 e        | 4 949 e        | 4 949 e        | 4 949 e        |
| Japan                    | 3 410         | 4 152         | 6 181          | 7 308          | 7 379          | 7 660          | 8 741          | 10 033         | 8 803          |
| Korea Rep                | 5 068         | 3 650         | 3 787          | 4 186          | 3 911          | 3 458          | 3 271          | 3 683          | 3 715          |
| Philippines              | 674           | 722           | 722            | 722 e          |
| Thailand                 | 513 e         | 513 e         | 513 e          | 513 e          | 513 e          | 513 e          | 513 e          | 513 e          | 513 e          |
| <b>C America + Carib</b> |               |               |                |                | <b>20</b>      | <b>9</b>       | <b>10</b>      | <b>17</b>      | <b>16</b>      |
| Honduras                 |               |               |                |                | 20             | 9              | 10             | 17 o           | 16 o           |
| <b>Eurasia</b>           | <b>1 874</b>  | <b>1 921</b>  | <b>2 028</b>   | <b>2 118</b>   | <b>1 885</b>   | <b>1 793</b>   | <b>1 802</b>   | <b>1 816</b>   | <b>1 870</b>   |
| Russian Fed              | 1 874         | 1 921         | 2 028          | 2 118          | 1 885          | 1 793          | 1 802          | 1 816 e        | 1 870 e        |
| <b>Europe</b>            | <b>35 278</b> | <b>35 050</b> | <b>35 160</b>  | <b>37 058</b>  | <b>34 835</b>  | <b>32 960</b>  | <b>36 297</b>  | <b>34 400</b>  | <b>40 293</b>  |
| Austria                  | 3 826         | 3 435         | 3 037          | 3 882          | 3 581          | 3 378          | 3 346          | 3 788          | 4 516          |
| Belgium                  | 1 173         | 1 099         | 1 119          | 1 127          | 1 015          | 879            | 1 048          | 932            | 1 375          |
| Bosnia Herzg             |               | 14 o          | 46 o           | 197            | 101            | 71             | 83             | 106            | 27             |
| Bulgaria                 | 561           | 492           | 688            | 665            | 276            | 453            | 500            | 248            | 30             |
| Croatia                  | 118           | 165           | 206            | 200            | 84             | 107            | 148            | 101            | 114            |
| Czechia                  | 1 052         | 1 276         | 1 202          | 1 170          | 1 051          | 1 167          | 1 293          | 1 211          | 990            |
| France                   | 5 797         | 4 957         | 4 846          | 5 134          | 5 361          | 4 659          | 4 501          | 4 331          | 5 528          |
| Germany                  | 5 857         | 5 921         | 5 588          | 6 005          | 6 170          | 5 940          | 6 554          | 5 315          | 5 951          |
| Greece                   | 129           | 52            | 22             | 77             | 16             | 51             | 97             | 58             | 145            |
| Ireland                  | 279           | 288           | 292            | 203            | 238            | 245            | 292            | 286            | 247            |
| Italy                    | 1 711         | 1 432         | 1 825          | 1 826          | 1 716          | 1 835          | 1 943          | 2 090          | 1 893          |
| Lithuania                | 689           | 675           | 590            | 579            | 529            | 602            | 780            | 710            | 556            |
| Luxembourg               | 1 061         | 1 431         | 1 413          | 1 336          | 1 244          | 842            | 1 002          | 978            | 1 059          |
| Norway                   | 715           | 1 148         | 610            | 746            | 733            | 740            | 666            | 403 o          | 1 127 o        |
| Poland                   | 551           | 603           | 482            | 474            | 417            | 706            | 819            | 762            | 1 050 o        |
| Portugal                 | 843           | 1 139         | 1 186          | 1 735          | 1 235          | 1 425          | 1 550          | 1 547          | 2 303          |
| Romania                  | 474           | 374           | 508            | 359            | 433            | 425            | 320            | 333            | 383 o          |
| Serbia                   | 614           | 703           | 728            | 599            | 754            | 741            | 714            | 700            | 626 o          |
| Slovakia                 | 253           | 271           | 247            | 299            | 289            | 215            | 282            | 294            | 285 o          |
| Slovenia                 | 274           | 283           | 279            | 273            | 189            | 203            | 291            | 285            | 252 o          |
| Spain                    | 3 801         | 3 228         | 3 470          | 2 748          | 2 469          | 2 228          | 3 491          | 3 221          | 4 512 o        |
| Sweden                   | 108           | 127           | 119            | 25             | 40             | 22             | 51             | 41             | 96 o           |
| Switzerland              | 1 665         | 1 623         | 2 066          | 2 941          | 2 818          | 2 922          | 3 153          | 2 931          | 3 936 u        |
| UK                       | 2 883         | 2 739         | 2 959          | 2 872          | 2 498          | 1 756          | 1 539          | 1 894          | 1 992 u        |
| Ukraine                  | 843           | 1 574         | 1 633          | 1 586          | 1 579          | 1 347          | 1 835          | 1 835 e        | 1 300 e        |
| <b>European Union</b>    | <b>28 559</b> | <b>27 249</b> | <b>27 118</b>  | <b>28 117</b>  | <b>26 353</b>  | <b>25 383</b>  | <b>28 306</b>  | <b>26 531</b>  | <b>31 285</b>  |
| <b>N America</b>         | <b>20 165</b> | <b>20 222</b> | <b>22 554</b>  | <b>22 863</b>  | <b>21 614</b>  | <b>20 883</b>  | <b>21 184</b>  | <b>20 729</b>  | <b>22 577</b>  |
| Canada                   | 111           | 111           | 111            | 111            | 111 o          | 111            | 111            | 111 o          | 111 o          |
| USA                      | 20 054        | 20 111        | 22 443         | 22 752 o       | 21 503 o       | 20 772 o       | 21 073 o       | 20 618 o       | 22 466 o       |
| <b>Oceania</b>           | <b>83</b>     | <b>121</b>    | <b>297</b>     | <b>248</b>     | <b>217</b>     | <b>365</b>     | <b>386</b>     | <b>439</b>     | <b>714</b>     |
| Australia                | 83            | 121           | 297            | 248            | 217            | 365            | 386            | 439            | 714            |
| <b>S America</b>         | <b>482</b>    | <b>578</b>    | <b>538</b>     | <b>401</b>     | <b>282</b>     | <b>409</b>     | <b>588</b>     | <b>536</b>     | <b>810</b>     |
| Argentina                | 482           | 578           | 538            | 401            | 282            | 409            | 588            | 536 o          | 810            |

# Marine energy

## Énergie marine

## Energía marina

| CAP (MW)              | 2014       | 2015       | 2016       | 2017       | 2018       | 2019       | 2020       | 2021       | 2022       | 2023       |
|-----------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| <b>World</b>          | <b>514</b> | <b>514</b> | <b>525</b> | <b>528</b> | <b>528</b> | <b>526</b> | <b>505</b> | <b>504</b> | <b>506</b> | <b>508</b> |
| <b>Asia</b>           | <b>260</b> | <b>260</b> | <b>260</b> | <b>260</b> | <b>260</b> | <b>261</b> | <b>261</b> | <b>261</b> | <b>261</b> | <b>261</b> |
| China                 | 4          | 4          | 4          | 4          | 4          | 4 e        | 5 u        | 5 e        | 5 e        | 5 e        |
| Korea DPR             | 1 e        | 1 e        | 1 e        | 1 e        | 1 e        | 1 e        | 1 e        | 1 e        | 1 e        | 1 e        |
| Korea Rep             | 255 o      | 255        | 255        | 255 o      | 255 o      | 256        | 256        | 256        | 256        | 256 o      |
| Singapore             | 0          | 0          | 0          | 0 e        | 0 o        | 0 e        | 0 e        | 0 e        | 0 e        | 0 e        |
| <b>Eurasia</b>        | <b>2</b>   | <b>3</b>   |
| Russian Fed           | 2 u        | 2 u        | 2 u        | 2 u        | 2 o        | 2 e        | 2          | 2 e        | 2          | 3 e        |
| <b>Europe</b>         | <b>231</b> | <b>232</b> | <b>242</b> | <b>245</b> | <b>246</b> | <b>244</b> | <b>242</b> | <b>241</b> | <b>242</b> | <b>243</b> |
| Faroe Islands         |            | 0 u        |            |            |            |            | 0 o        | 0 e        | 0          | 0 e        |
| France                | 220        | 218        | 220        | 219        | 218        | 214        | 212        | 211        | 212        | 212 e      |
| Italy                 | 0 u        | 0 u        | 0 u        | 0 e        | 0 e        | 0 e        | 0          | 0          | 0          | 0 e        |
| Netherlands           | 0 u        | 2 u        | 2 e        | 2 e        | 2 e        | 2 u        | 2 e        | 2 e        | 2          | 2 e        |
| Norway                | 0 u        | 0 u        | 0 u        | 0 e        | 0 e        | 0 e        | 0 e        | 0 e        | 0          | 0 e        |
| Portugal              | 1          | 1          | 1          | 0          | 0          |            |            |            |            |            |
| Spain                 | 0 u        | 0 u        | 5          | 5          | 5          | 5          | 5          | 5          | 5          | 5 e        |
| Sweden                | 0 u        | 0 u        | 0 u        | 0 e        | 0 e        |            |            |            |            |            |
| UK                    | 9          | 9          | 13         | 18         | 20         | 22         | 22         | 22         | 22         | 24 o       |
| <b>European Union</b> | <b>222</b> | <b>222</b> | <b>228</b> | <b>227</b> | <b>226</b> | <b>221</b> | <b>219</b> | <b>218</b> | <b>219</b> | <b>219</b> |
| <b>N America</b>      | <b>20</b>  | <b>20</b>  | <b>20</b>  | <b>20</b>  | <b>20</b>  | <b>20</b>  | <b>1</b>   | <b>1</b>   | <b>1</b>   | <b>1</b>   |
| Canada                | 20         | 20         | 20         | 20         | 20 e       | 20 e       | 1 o        | 1 o        | 1 o        | 1 o        |
| USA                   | 0 e        | 0 u        | 0 u        | 0 o        |            |            |            |            |            |            |
| <b>Oceania</b>        | <b>1</b>   | <b>1</b>   | <b>1</b>   | <b>1</b>   |            | <b>0</b>   | <b>0</b>   | <b>0</b>   | <b>0</b>   | <b>0</b>   |
| Australia             | 1          | 1          | 1          | 1 e        |            | 0 o        | 0 o        | 0 e        | 0 e        |            |
| New Zealand           |            |            |            |            |            |            |            |            |            |            |
| <b>S America</b>      | <b>0</b>   |
| Brazil                | 0          | 0          | 0          | 0          | 0 o        | 0 o        | 0 o        | 0 o        | 0 o        | 0 o        |

# Marine energy

## Énergie marine

## Energía marina

| PROD (GWh)            | 2014       | 2015         | 2016         | 2017         | 2018         | 2019       | 2020       | 2021       | 2022       |
|-----------------------|------------|--------------|--------------|--------------|--------------|------------|------------|------------|------------|
| <b>World</b>          | <b>999</b> | <b>1 008</b> | <b>1 044</b> | <b>1 049</b> | <b>1 022</b> | <b>996</b> | <b>985</b> | <b>971</b> | <b>957</b> |
| <b>Asia</b>           | <b>499</b> | <b>503</b>   | <b>503</b>   | <b>496</b>   | <b>492</b>   | <b>481</b> | <b>464</b> | <b>462</b> | <b>431</b> |
| China                 | 7          | 7            | 7            | 7            | 7            | 7 e        | 7 e        | 7 e        | 7 e        |
| Korea DPR             | 1 e        | 1 e          | 1 e          | 1 e          | 1 e          | 1 e        | 1 e        | 1 e        | 1 e        |
| Korea Rep             | 492        | 496          | 496          | 489          | 485          | 474        | 457        | 455        | 424        |
| Singapore             | 0          | 0            | 0 e          | 0 e          | 0 e          | 0 e        | 0 e        | 0 e        | 0 e        |
| <b>Eurasia</b>        | <b>0</b>   | <b>0</b>     | <b>0</b>     | <b>0</b>     | <b>0</b>     | <b>0</b>   | <b>0</b>   | <b>0</b>   | <b>0</b>   |
| Russian Fed           | 0 e        | 0 e          | 0 e          | 0 e          | 0            | 0          | 0          | 0 e        | 0 e        |
| <b>Europe</b>         | <b>483</b> | <b>491</b>   | <b>521</b>   | <b>546</b>   | <b>510</b>   | <b>513</b> | <b>520</b> | <b>509</b> | <b>525</b> |
| Faroe Islands         |            | 0 e          | 0 e          |              |              |            |            | 0          | 0          |
| France                | 481        | 487          | 501          | 522          | 480          | 479        | 482        | 484        | 490        |
| Italy                 | 0          | 0            | 0            | 0            | 0            | 0          | 0          | 0 e        | 0          |
| Netherlands           | 0 e        | 2 e          |              |              |              |            |            |            |            |
| Norway                | 0 e        | 0 e          | 0 e          | 0            | 0            | 0          | 0          | 0 e        | 0          |
| Portugal              | 0          | 0            | 0            | 0            |              |            |            |            |            |
| Spain                 | 1 e        | 1 e          | 20 e         | 20 e         | 20 e         | 20         | 27         | 19         | 23         |
| Sweden                | 0 e        | 0 e          | 0 e          | 0            | 0            |            |            |            |            |
| UK                    | 1          |              |              | 4 u          | 9 u          | 14 u       | 11 u       | 5 u        | 11         |
| <b>European Union</b> | <b>482</b> | <b>491</b>   | <b>521</b>   | <b>542</b>   | <b>500</b>   | <b>499</b> | <b>509</b> | <b>503</b> | <b>514</b> |
| <b>N America</b>      | <b>16</b>  | <b>13</b>    | <b>19</b>    | <b>6</b>     | <b>20</b>    | <b>1</b>   |            |            |            |
| Canada                | 16         | 13           | 19           | 6            | 20           | 1          |            |            |            |
| USA                   | 0 e        | 0 e          | 0 e          | 0            | 0            |            |            |            |            |
| <b>Oceania</b>        | <b>0</b>   | <b>0</b>     | <b>0</b>     | <b>0</b>     | <b>0</b>     | <b>0</b>   | <b>0</b>   | <b>0</b>   | <b>0</b>   |
| Australia             | 0          | 0            | 0            | 0            | 0 o          | 0          | 0 e        |            |            |
| <b>S America</b>      | <b>0</b>   | <b>0</b>     | <b>0</b>     | <b>0</b>     | <b>0</b>     | <b>0</b>   | <b>0</b>   | <b>0</b>   | <b>0</b>   |
| Brazil                | 0 e        | 0 e          | 0 e          | 0 e          | 0 e          | 0 e        | 0 e        | 0 e        | 0          |

# Wind energy

## Énergie éolienne

## Energía eólica

| CAP (MW)          | 2014    | 2015    | 2016    | 2017    | 2018    | 2019    | 2020    | 2021    | 2022    | 2023      |
|-------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-----------|
| World             | 349 458 | 416 435 | 467 241 | 514 930 | 563 680 | 622 730 | 733 473 | 824 321 | 902 883 | 1 017 390 |
| Africa            | 2 399   | 3 320   | 3 831   | 4 578   | 5 471   | 5 528   | 6 514   | 6 909   | 7 745   | 8 654     |
| Algeria           | 10      | 10      | 10      | 10      | 10      | 10      | 10      | 10      | 10      | 10        |
| Cabo Verde        | 27      | 27      | 27      | 27      | 27      | 27      | 27      | 27      | 27      | 27        |
| Chad              |         |         | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1         |
| Djibouti          |         |         |         |         |         |         | 20      | 20      | 20      | 80        |
| Egypt             | 555     | 755     | 755     | 755     | 1 130   | 1 132   | 1 380   | 1 640   | 1 643   | 1 890     |
| Eritrea           | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1         |
| Ethiopia          | 171     | 324     | 324     | 324     | 324     | 324     | 324     | 324     | 404     | 324       |
| Gambia            | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1         |
| Ghana             | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0         |
| Kenya             | 6       | 26      | 26      | 26      | 336     | 336     | 336     | 436     | 436     | 436       |
| Madagascar        | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0         |
| Mauritania        | 4       | 34      | 34      | 34      | 34      | 34      | 34      | 34      | 34      | 137       |
| Mauritius         | 1       | 1       | 11      | 11      | 11      | 11      | 11      | 11      | 11      | 11        |
| Morocco           | 797     | 797     | 902     | 1 022   | 1 225   | 1 225   | 1 435   | 1 471   | 1 558   | 1 858     |
| Namibia           | 0       | 0       | 0       | 5       | 5       | 5       | 5       | 5       | 5       | 5         |
| Nigeria           |         |         |         |         |         |         |         |         |         |           |
| Reunion           | 15      | 15      | 17      | 17      | 17      | 17      | 17      | 17      | 15      | 15        |
| Senegal           |         |         |         |         |         |         |         |         |         |           |
| Seychelles        | 6       | 6       | 6       | 6       | 6       | 6       | 6       | 6       | 6       | 6         |
| Somalia           | 2       | 3       | 3       | 4       | 4       | 4       | 4       | 4       | 4       | 4         |
| South Africa      | 569     | 1 079   | 1 473   | 2 094   | 2 094   | 2 094   | 2 516   | 2 495   | 3 163   | 3 442     |
| Tanzania          |         |         |         |         |         |         |         | 2       | 2       | 2         |
| Tunisia           | 233     | 240     | 240     | 240     | 245     | 245     | 245     | 245     | 245     | 245       |
| Asia              | 124 370 | 161 811 | 184 112 | 204 945 | 228 978 | 257 670 | 331 941 | 384 742 | 426 482 | 508 599   |
| Afghanistan       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0         |
| Bangladesh        | 2       | 3       | 3       | 3       | 3       | 3       | 3       | 3       | 3       | 3         |
| Bhutan            | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1         |
| Cambodia          | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0         |
| China             | 96 819  | 131 048 | 148 517 | 164 374 | 184 665 | 209 582 | 281 993 | 328 973 | 365 964 | 441 895   |
| China HK SAR      |         |         |         | 1       | 1       | 1       | 1       | 1       | 1       | 1         |
| Chinese Taipei    | 637     | 647     | 682     | 692     | 713     | 845     | 937     | 1 033   | 1 581   | 2 674     |
| India             | 22 465  | 25 088  | 28 700  | 32 848  | 35 288  | 37 505  | 38 559  | 40 067  | 41 930  | 44 736    |
| Indonesia         | 1       | 1       | 1       | 1       | 144     | 154     | 154     | 154     | 154     | 152       |
| Japan             | 2 753   | 2 809   | 3 205   | 3 483   | 3 498   | 3 952   | 4 120   | 4 262   | 4 483   | 5 343     |
| Kazakhstan        | 53      | 72      | 98      | 112     | 121     | 284     | 486     | 684     | 1 108   | 1 440     |
| Korea DPR         | 1       | 1       | 1       | 1       | 1       | 1       | 2       | 2       | 2       | 2         |
| Korea Rep         | 645     | 853     | 1 035   | 1 143   | 1 303   | 1 494   | 1 645   | 1 709   | 1 946   | 2 205     |
| Maldives          | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1         |
| Mongolia          | 51      | 51      | 51      | 101     | 156     | 156     | 156     | 156     | 156     | 156       |
| Myanmar           | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0         |
| Nepal             | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0         |
| Pakistan          | 206     | 308     | 591     | 789     | 1 186   | 1 236   | 1 236   | 1 335   | 1 845   | 1 845     |
| Philippines       | 337     | 427     | 427     | 427     | 427     | 443     | 443     | 443     | 443     | 443       |
| Singapore         |         |         |         | 0       | 0       | 0       | 0       | 0       | 0       | 0         |
| Sri Lanka         | 121     | 131     | 131     | 131     | 128     | 128     | 179     | 252     | 252     | 267       |
| Thailand          | 225     | 234     | 507     | 628     | 1 103   | 1 507   | 1 507   | 1 545   | 1 545   | 1 545     |
| Uzbekistan        |         |         |         | 1       | 1       | 1       | 1       | 1       | 1       | 1         |
| Viet Nam          | 53      | 136     | 160     | 205     | 237     | 375     | 518     | 4 118   | 5 065   | 5 888     |
| C America + Carib | 927     | 1 246   | 1 485   | 1 610   | 1 737   | 1 955   | 1 969   | 1 992   | 2 110   | 2 128     |
| Aruba             | 30      | 30      | 30      | 30      | 30      | 30      | 30      | 30      | 30      | 30        |
| Bahamas           | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0         |
| Barbados          | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 1       | 1         |
| Belize            | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0         |
| BES Islands       | 11      | 11      | 11      | 11      | 11      | 11      | 11      | 11      | 11      | 11        |
| Br Virgin Is      | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1         |
| Cayman Is         |         |         |         |         | 1       | 1       | 1       | 1       | 1       | 1         |
| Costa Rica        | 196     | 278     | 319     | 378     | 408     | 411     | 394     | 390     | 390     | 408       |
| Cuba              | 16      | 16      | 16      | 16      | 16      | 16      | 16      | 16      | 16      | 16        |
| Curacao           | 30      | 30      | 30      | 47      | 47      | 47      | 47      | 47      | 47      | 47        |
| Dominica          | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0         |
| Dominican Rep     | 80      | 86      | 135     | 135     | 183     | 370     | 370     | 370     | 417     | 417       |
| El Salvador       |         |         |         |         |         | 36      | 54      | 54      | 54      | 54        |
| Grenada           | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0         |
| Guadeloupe        | 26      | 27      | 27      | 27      | 43      | 48      | 42      | 52      | 56      | 56        |
| Guatemala         | 76      | 76      | 76      | 107     | 107     | 107     | 107     | 107     | 107     | 107       |
| Haiti             |         |         |         | 0       | 0       | 0       | 0       | 0       | 0       | 0         |
| Honduras          | 152     | 156     | 179     | 229     | 229     | 239     | 239     | 239     | 239     | 239       |
| Jamaica           | 42      | 42      | 102     | 102     | 102     | 102     | 102     | 102     | 102     | 102       |
| Martinique        | 1       | 1       | 1       | 1       | 1       | 14      | 15      | 14      | 14      | 14        |
| Nicaragua         | 186     | 186     | 186     | 186     | 186     | 186     | 186     | 186     | 186     | 186       |
| Panama            | 55      | 205     | 270     | 270     | 270     | 270     | 270     | 270     | 336     | 336       |
| Puerto Rico       | 99      | 99      | 99      | 99      | 99      | 99      | 99      | 99      | 99      | 99        |
| St Kitts Nevis    | 2       | 2       | 2       | 2       | 2       | 2       | 2       | 2       | 2       | 2         |
| Trinidad Tobago   | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0         |
| US Virgin Is      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0         |
| Eurasia           | 3 645   | 4 525   | 5 801   | 6 566   | 7 146   | 7 783   | 9 868   | 12 652  | 13 702  | 14 305    |
| Armenia           | 3       | 3       | 3       | 3       | 3       | 3       | 3       | 3       | 3       | 3         |
| Azerbaijan        | 3       | 8       | 16      | 16      | 66      | 66      | 66      | 66      | 64      | 67        |
| Georgia           |         |         | 20      | 20      | 20      | 21      | 21      | 21      | 21      | 21        |
| Russian Fed       | 10      | 11      | 11      | 11      | 52      | 102     | 945     | 1 955   | 2 218   | 2 518     |
| Türkiye           | 3 630   | 4 503   | 5 751   | 6 516   | 7 005   | 7 591   | 8 832   | 10 607  | 11 396  | 11 697    |

**Wind energy**  
**Énergie éolienne**  
**Energía eólica**

| CAP (MW)              | 2014           | 2015           | 2016           | 2017           | 2018           | 2019           | 2020           | 2021           | 2022           | 2023           |
|-----------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| <b>Europe</b>         | <b>130 198</b> | <b>143 015</b> | <b>155 727</b> | <b>170 616</b> | <b>181 787</b> | <b>196 110</b> | <b>207 896</b> | <b>221 517</b> | <b>240 278</b> | <b>255 615</b> |
| Austria               | 2 110          | 2 489          | 2 730          | 2 887          | 3 133          | 3 224          | 3 226          | 3 408          | 3 579          | 3 977          |
| Belarus               | 9              | 22             | 62             | 84             | 92             | 112            | 112            | 112            | 120            | 122            |
| Belgium               | 1 933          | 2 181          | 2 334          | 2 779          | 3 305          | 3 864          | 4 673          | 4 948          | 5 303          | 5 504          |
| Bosnia Herzg          | 0              | 0              | 0              | 0              | 51             | 87             | 87             | 135            | 135            | 135            |
| Bulgaria              | 699            | 699            | 699            | 698            | 699            | 703            | 703            | 704            | 702            | 702            |
| Croatia               | 339            | 418            | 483            | 576            | 586            | 646            | 801            | 987            | 987            | 1 143          |
| Cyprus                | 147            | 158            | 158            | 158            | 158            | 158            | 158            | 158            | 158            | 158            |
| Czechia               | 278            | 281            | 282            | 308            | 316            | 339            | 339            | 339            | 339            | 343            |
| Denmark               | 4 886          | 5 077          | 5 245          | 5 489          | 6 123          | 6 111          | 6 259          | 7 004          | 7 084          | 7 482          |
| Estonia               | 275            | 300            | 310            | 312            | 310            | 316            | 317            | 315            | 316            | 408            |
| Faroe Islands         | 20             | 20             | 20             | 20             | 16             | 13             | 19             | 23             | 23             | 23             |
| Finland               | 627            | 1 005          | 1 565          | 2 044          | 2 041          | 2 284          | 2 586          | 3 257          | 5 677          | 6 957          |
| France                | 9 201          | 10 298         | 11 567         | 13 499         | 14 900         | 16 427         | 17 535         | 18 551         | 20 811         | 20 811         |
| Germany               | 38 614         | 44 580         | 49 435         | 55 580         | 58 721         | 60 742         | 62 201         | 63 711         | 66 163         | 69 459         |
| Greece                | 1 978          | 2 091          | 2 370          | 2 624          | 2 877          | 3 589          | 4 119          | 4 649          | 4 702          | 5 220          |
| Hungary               | 329            | 329            | 329            | 329            | 329            | 323            | 323            | 324            | 324            | 326            |
| Iceland               | 3              | 3              | 3              | 2              | 2              | 2              | 2              | 2              | 2              | 2              |
| Ireland               | 2 283          | 2 451          | 2 802          | 3 319          | 3 674          | 4 126          | 4 307          | 4 339          | 4 536          | 4 807          |
| Italy                 | 8 683          | 9 137          | 9 384          | 9 737          | 10 230         | 10 679         | 10 871         | 11 254         | 11 821         | 12 308         |
| Kosovo*               | 1              | 1              | 1              | 34             | 34             | 34             | 34             | 34             | 68             | 137            |
| Latvia                | 69             | 68             | 70             | 77             | 78             | 78             | 78             | 77             | 82             | 141            |
| Lithuania             | 288            | 436            | 509            | 518            | 533            | 534            | 540            | 671            | 946            | 1 287          |
| Luxembourg            | 58             | 64             | 120            | 120            | 123            | 136            | 153            | 136            | 165            | 221            |
| Malta                 | 0              | 0              | 0              | 0              | 0              | 0              | 0              | 0              | 0              | 0              |
| Moldova Rep           | 1              | 1              | 2              | 9              | 33             | 35             | 41             | 67             | 115            | 141            |
| Montenegro            |                |                |                | 72             | 72             | 118            | 118            | 118            | 118            | 118            |
| Netherlands           | 2 865          | 3 391          | 4 257          | 4 202          | 4 393          | 4 484          | 6 648          | 7 674          | 8 755          | 10 749         |
| North Macedonia       | 37             | 37             | 37             | 37             | 37             | 37             | 37             | 37             | 73             | 110            |
| Norway                | 859            | 867            | 883            | 1 207          | 1 710          | 2 914          | 4 030          | 5 049          | 5 062          | 5 065          |
| Poland                | 3 836          | 4 886          | 5 747          | 5 759          | 5 766          | 5 838          | 6 298          | 6 967          | 8 150          | 9 307          |
| Portugal              | 4 857          | 4 937          | 5 124          | 5 124          | 5 172          | 5 223          | 5 122          | 5 427          | 5 538          | 5 617          |
| Romania               | 3 244          | 3 130          | 3 025          | 3 030          | 3 032          | 3 038          | 3 013          | 3 015          | 3 015          | 3 087          |
| Serbia                | 1              | 10             | 17             | 25             | 227            | 398            | 398            | 398            | 398            | 511            |
| Slovakia              | 3              | 3              | 3              | 4              | 3              | 4              | 4              | 4              | 4              | 4              |
| Slovenia              | 3              | 3              | 3              | 3              | 3              | 3              | 3              | 3              | 3              | 3              |
| Spain                 | 22 925         | 22 943         | 22 990         | 23 124         | 23 405         | 25 590         | 26 819         | 27 908         | 30 114         | 31 028         |
| Sweden                | 5 088          | 5 819          | 6 435          | 6 611          | 7 300          | 8 681          | 9 976          | 12 116         | 14 279         | 16 252         |
| Switzerland           | 60             | 60             | 75             | 75             | 75             | 75             | 87             | 87             | 87             | 87             |
| UK                    | 13 074         | 14 305         | 16 126         | 19 585         | 21 606         | 23 887         | 24 458         | 25 748         | 28 762         | 30 102         |
| Ukraine               | 514            | 514            | 526            | 553            | 621            | 1 258          | 1 402          | 1 761          | 1 761          | 1 761          |
| <b>European Union</b> | <b>115 661</b> | <b>127 216</b> | <b>138 020</b> | <b>148 957</b> | <b>157 272</b> | <b>167 219</b> | <b>177 145</b> | <b>188 030</b> | <b>203 639</b> | <b>217 387</b> |
| <b>Middle East</b>    | <b>165</b>     | <b>286</b>     | <b>409</b>     | <b>494</b>     | <b>623</b>     | <b>785</b>     | <b>934</b>     | <b>1 039</b>   | <b>1 564</b>   | <b>1 866</b>   |
| Bahrain               | 1              | 1              | 1              | 1              | 1              | 1              | 1              | 1              | 3              | 3              |
| Iran IR               | 149            | 153            | 191            | 259            | 282            | 305            | 308            | 310            | 342            | 365            |
| Israel                | 6              | 6              | 27             | 27             | 27             | 27             | 27             | 27             | 136            | 316            |
| Jordan                | 1              | 118            | 184            | 198            | 295            | 384            | 529            | 632            | 614            | 614            |
| Kuwait                | 2              | 2              | 2              | 2              | 12             | 12             | 12             | 12             | 12             | 12             |
| Lebanon               | 3              | 3              | 3              | 3              | 3              | 3              | 3              | 3              | 3              | 3              |
| Oman                  |                |                |                |                | 50             | 50             | 50             | 50             | 50             | 50             |
| Saudi Arabia          |                |                |                | 3              | 3              | 3              | 3              | 3              | 403            | 403            |
| Syrian AR             | 1              | 1              | 1              | 1              | 1              | 1              | 1              | 1              | 1              | 1              |
| United Arab Em        | 2              | 2              |                |                |                |                | 0              | 0              | 0              | 99             |
| <b>N America</b>      | <b>76 694</b>  | <b>87 252</b>  | <b>97 527</b>  | <b>104 261</b> | <b>111 662</b> | <b>123 597</b> | <b>139 191</b> | <b>154 210</b> | <b>164 389</b> | <b>172 328</b> |
| Canada                | 9 694          | 11 214         | 11 973         | 12 250         | 12 816         | 13 220         | 13 532         | 13 722         | 15 081         | 16 989         |
| Greenland             |                |                |                |                | 0              | 0              | 0              | 0              | 0              | 1              |
| Mexico                | 2 569          | 3 271          | 4 051          | 4 180          | 4 180          | 6 541          | 6 995          | 7 469          | 7 634          | 7 318          |
| St Pierre Mq          | 1              |                |                |                |                |                |                |                |                |                |
| USA                   | 64 430         | 72 767         | 81 502         | 87 831         | 94 666         | 103 836        | 118 664        | 133 019        | 141 674        | 148 020        |
| <b>Oceania</b>        | <b>4 531</b>   | <b>5 059</b>   | <b>5 425</b>   | <b>6 149</b>   | <b>7 152</b>   | <b>8 625</b>   | <b>10 951</b>  | <b>11 522</b>  | <b>13 035</b>  | <b>14 045</b>  |
| Australia             | 3 797          | 4 318          | 4 683          | 5 407          | 6 409          | 7 881          | 10 207         | 10 555         | 11 966         | 12 911         |
| Fiji                  | 10             | 10             | 10             | 10             | 10             | 10             | 10             | 10             | 10             | 10             |
| Fr Polynesia          | 0              | 0              | 0              | 0              | 0              | 0              | 0              | 0              | 0              | 0              |
| Guam                  |                |                |                |                |                |                |                |                |                |                |
| Marshall Is           | 0              | 0              | 0              | 0              | 0              | 0              | 0              | 0              | 0              | 0              |
| Micronesia            |                |                |                |                | 1              | 1              | 1              | 1              | 1              | 1              |
| New Caledon           | 38             | 38             | 38             | 38             | 38             | 38             | 38             | 38             | 58             | 58             |
| New Zealand           | 682            | 689            | 690            | 690            | 690            | 690            | 690            | 913            | 994            | 1 059          |
| Samoa                 | 1              | 1              | 1              | 1              | 1              | 1              | 1              | 1              | 1              | 1              |
| Tokelau               |                |                |                |                |                |                | 0              | 0              | 0              | 0              |
| Tonga                 | 0              | 0              | 0              | 0              | 0              | 1              | 1              | 1              | 1              | 1              |
| Vanuatu               | 4              | 4              | 4              | 3              | 3              | 3              | 3              | 3              | 3              | 3              |

**Wind energy**  
**Énergie éolienne**  
**Energía eólica**

| CAP (MW)         | 2014         | 2015         | 2016          | 2017          | 2018          | 2019          | 2020          | 2021          | 2022          | 2023          |
|------------------|--------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| <b>S America</b> | <b>6 528</b> | <b>9 921</b> | <b>12 923</b> | <b>15 711</b> | <b>19 124</b> | <b>20 677</b> | <b>24 208</b> | <b>29 737</b> | <b>33 580</b> | <b>39 852</b> |
| Argentina        | 188          | 188          | 188           | 228           | 751           | 1 609         | 2 624         | 3 292         | 3 310         | 3 706         |
| Bolivia          | 3            | 3            | 27            | 27            | 27            | 27            | 27            | 128           | 128           | 135           |
| Brazil           | 4 888        | 7 633        | 10 129        | 12 304        | 14 843        | 15 438        | 17 198        | 21 161        | 24 163        | 29 135        |
| Chile            | 732          | 907          | 1 034         | 1 305         | 1 524         | 1 620         | 2 340         | 3 137         | 3 830         | 4 510         |
| Colombia         | 18           | 18           | 18            | 18            | 18            | 18            | 18            | 18            | 18            | 18            |
| Ecuador          | 21           | 21           | 21            | 21            | 21            | 21            | 21            | 21            | 21            | 71            |
| Falklands Malv   | 3            | 3            | 3             | 3             | 3             | 3             | 3             | 3             | 3             | 3             |
| Guyana           | 0            | 0            | 0             | 0             | 0             | 0             | 0             | 0             | 0             | 0             |
| Paraguay         |              |              |               |               |               |               | 0             | 0             | 0             | 0             |
| Peru             | 143          | 240          | 240           | 240           | 372           | 372           | 409           | 409           | 539           | 705           |
| South Georgia    | 0            | 0            | 0             | 0             | 0             | 0             | 0             | 0             | 0             | 0             |
| Uruguay          | 481          | 857          | 1 211         | 1 513         | 1 513         | 1 516         | 1 516         | 1 516         | 1 516         | 1 516         |
| Venezuela        | 50           | 50           | 50            | 50            | 50            | 50            | 50            | 50            | 50            | 50            |

# Wind energy

## Énergie éolienne

## Energía eólica

| PROD (GWh)               | 2014           | 2015           | 2016           | 2017             | 2018             | 2019             | 2020             | 2021             | 2022             |
|--------------------------|----------------|----------------|----------------|------------------|------------------|------------------|------------------|------------------|------------------|
| <b>World</b>             | <b>712 130</b> | <b>827 886</b> | <b>952 944</b> | <b>1 131 755</b> | <b>1 258 926</b> | <b>1 412 636</b> | <b>1 588 319</b> | <b>1 840 364</b> | <b>2 098 332</b> |
| <b>Africa</b>            | <b>4 477</b>   | <b>5 457</b>   | <b>7 006</b>   | <b>7 152</b>     | <b>7 845</b>     | <b>9 727</b>     | <b>10 742</b>    | <b>12 737</b>    | <b>12 996</b>    |
| Algeria                  | 1              | 19             | 19             | 19               | 10               | 10               | 8                | 11               | 16               |
| Cabo Verde               | 83             | 79             | 77             | 68               | 80               | 74               | 64               | 74               | 74               |
| Chad                     |                |                | 9              | 9                | 9                | 9                | 9                | 9                | 9                |
| Djibouti                 |                |                |                |                  |                  |                  |                  | 69               | 69               |
| Egypt                    | 1 344          | 1 456          | 2 070          | 2 212            | 2 346            | 3 001            | 4 245            | 5 269            | 5 677            |
| Eritrea                  | 2              | 2              | 2              | 1                | 1                | 1                | 1                | 1                | 1                |
| Ethiopia                 | 526            | 499            | 786            | 782              | 533              | 848              | 609              | 817              | 561              |
| Gambia                   | 2              | 2              | 2              | 2                | 2                | 2                | 2                | 2                | 2                |
| Ghana                    |                | 0              | 0              | 0                | 0                | 0                | 0                | 0                | 0                |
| Kenya                    | 28             | 48             | 61             | 56               | 58               | 58               | 51               | 83               | 85               |
| Madagascar               | 0              | 0              | 0              | 0                | 0                | 0                | 0                | 0                | 0                |
| Mauritania               | 13             | 104            | 104            | 104              | 104              | 131              | 131              | 131              | 131              |
| Mauritius                | 3              | 3              | 18             | 15               | 15               | 15               | 18               | 15               | 15               |
| Morocco                  | 1 939          | 2 535          | 3 015          | 3 050            | 3 856            | 4 714            | 4 607            | 5 122            | 5 371            |
| Namibia                  | 1              | 1              | 1              | 22               | 22               | 22               | 22               | 22               | 22               |
| Nigeria                  |                |                |                |                  |                  |                  |                  |                  |                  |
| Reunion                  | 16             | 16             | 19             | 14               | 13               | 12               | 14               | 4                | 3                |
| Senegal                  |                |                |                |                  |                  | 23               | 179              | 400              | 396              |
| Seychelles               | 7              | 7              | 7              | 7                | 7                | 5                | 6                | 5                | 7                |
| Somalia                  | 4              | 5              | 5              | 6                | 6                | 6                | 6                | 6                | 6                |
| South Africa             | 1              | 234            | 337            | 335              | 329              | 294              | 300              | 266              | 224              |
| Tanzania                 |                |                |                |                  |                  |                  | 4                | 4                | 4                |
| Tunisia                  | 507            | 448            | 474            | 449              | 453              | 500              | 465              | 425              | 322              |
| <b>Asia</b>              | <b>196 759</b> | <b>228 939</b> | <b>291 509</b> | <b>368 256</b>   | <b>440 344</b>   | <b>491 437</b>   | <b>554 791</b>   | <b>747 694</b>   | <b>869 342</b>   |
| Afghanistan              | 0              | 0              | 0              | 0                | 0                | 0                | 0                | 0                | 0                |
| Bangladesh               | 3              | 4              | 5              | 5                | 5                | 5                | 5                | 5                | 5                |
| Bhutan                   |                |                | 1              | 1                | 1                |                  | 1                | 0                | 0                |
| Cambodia                 | 0              | 0              | 0              | 0                | 0                | 0                | 0                | 0                | 0                |
| China                    | 160 206        | 185 965        | 242 388        | 305 015          | 366 452          | 406 560          | 467 037          | 656 705          | 763 343          |
| China HK SAR             | 1              | 1              | 1              | 1                | 1                | 1                | 1                | 1                | 1                |
| Chinese Taipei           | 1 501          | 1 525          | 1 457          | 1 723            | 1 710            | 1 892            | 2 309            | 2 258            | 3 543            |
| India                    | 27 235         | 31 873         | 36 273         | 47 670           | 55 009           | 62 689           | 63 522           | 62 272           | 69 434           |
| Indonesia                | 1              | 4              | 6              | 6                | 8                | 8                | 8                | 8                | 8                |
| Japan                    | 5 217          | 5 580          | 6 166          | 6 490            | 7 481            | 7 618            | 8 970            | 9 413            | 9 297            |
| Kazakhstan               | 13             | 132            | 275            | 340              | 461              | 717              | 1 077            | 1 776            | 2 362            |
| Korea DPR                | 1              | 2              | 2              | 2                | 2                | 2                | 3                | 3                | 3                |
| Korea Rep                | 1 146          | 1 342          | 1 683          | 2 169            | 2 465            | 2 680            | 3 151            | 3 183            | 3 372            |
| Maldives                 | 2              | 2              | 2              | 2                | 2                | 2                | 2                | 2                | 2                |
| Mongolia                 | 126            | 154            | 159            | 155              | 340              | 460              | 458              | 564              | 510              |
| Myanmar                  |                | 0              | 0              | 0                | 0                | 0                | 0                | 0                | 0                |
| Nepal                    | 0              | 0              | 0              | 0                | 0                | 0                | 0                | 0                | 0                |
| Pakistan                 | 363            | 622            | 1 060          | 1 729            | 2 642            | 2 812            | 2 504            | 3 481            | 4 244            |
| Philippines              | 152            | 748            | 975            | 1 094            | 1 153            | 1 042            | 1 026            | 1 270            | 1 030            |
| Singapore                |                |                |                | 0                | 0                | 0                | 0                | 0                | 0                |
| Sri Lanka                | 272            | 343            | 345            | 367              | 326              | 348              | 332              | 653              | 738              |
| Thailand                 | 399            | 329            | 340            | 1 115            | 1 643            | 3 673            | 3 216            | 3 556            | 3 004            |
| Uzbekistan               |                |                |                |                  |                  | 16               | 16               | 1                |                  |
| Viet Nam                 | 118            | 313            | 370            | 371              | 642              | 910              | 1 153            | 2 542            | 8 445            |
| <b>C America + Carib</b> | <b>3 093</b>   | <b>3 961</b>   | <b>4 380</b>   | <b>4 430</b>     | <b>5 853</b>     | <b>6 143</b>     | <b>5 698</b>     | <b>6 244</b>     | <b>5 828</b>     |
| Aruba                    | 156            | 166            | 133            | 131              | 131              | 131              | 131              | 131              | 131              |
| Bahamas                  | 1              | 1              | 1              | 1                | 1                | 1                | 1                | 1                | 1                |
| Barbados                 | 0              | 0              | 0              | 0                | 0                | 0                | 0                | 0                | 0                |
| Belize                   | 0              | 0              | 0              | 0                | 0                | 0                | 0                | 0                | 0                |
| BES Islands              | 41             | 40             | 35             | 31               | 37               | 32               | 25               | 29               | 29               |
| Br Virgin Is             | 2              | 2              | 2              | 2                | 2                | 2                | 2                | 2                | 2                |
| Cayman Is                |                |                |                | 0                | 1                | 1                | 1                | 1                | 1                |
| Costa Rica               | 735            | 1 080          | 1 147          | 1 288            | 1 799            | 1 796            | 1 459            | 1 573            | 1 369            |
| Cuba                     | 19             | 21             | 21             | 21               | 44               | 66               | 69               | 70               | 64               |
| Curacao                  | 159            | 131            | 114            | 162              | 231              | 224              | 185              | 193              | 183              |
| Dominica                 | 1              | 1              | 1              | 1                | 1                | 1                | 1                | 1                | 1                |
| Dominican Rep            | 259            | 284            | 313            | 378              | 492              | 782              | 1 101            | 1 231            | 1 175            |
| El Salvador              |                |                |                |                  |                  |                  | 14               | 132              | 136              |
| Grenada                  | 0              | 0              | 0              | 0                | 0                | 0                | 0                | 0                | 0                |
| Guadeloupe               | 54             | 52             | 53             | 51               | 52               | 63               | 73               | 107              | 111              |
| Guatemala                |                | 107            | 215            | 218              | 320              | 331              | 313              | 324              | 314              |
| Haiti                    |                |                |                | 0                | 0                | 0                | 0                | 0                | 0                |
| Honduras                 | 398            | 668            | 586            | 580              | 931              | 819              | 711              | 778              | 689              |
| Jamaica                  | 122            | 129            | 211            | 293              | 305              | 275              | 281              | 265              | 272              |
| Martinique               | 2              | 2              | 1              | 1                | 6                | 46               | 42               | 49               | 40               |
| Nicaragua                | 846            | 865            | 729            | 635              | 801              | 730              | 550              | 656              | 562              |
| Panama                   | 113            | 166            | 617            | 484              | 589              | 678              | 590              | 530              | 584              |
| Puerto Rico              | 218            | 239            | 193            | 149              | 108              | 159              | 143              | 166              | 156              |
| St Kitts Nevis           | 8              | 8              | 8              | 5                | 6                | 6                | 6                | 6                | 6                |
| Trinidad Tobago          |                | 0              | 0              | 0                | 0                | 0                | 0                | 0                | 0                |
| US Virgin Is             | 0              | 0              | 0              | 0                | 0                | 0                | 0                | 0                | 0                |
| <b>Eurasia</b>           | <b>8 531</b>   | <b>11 667</b>  | <b>15 557</b>  | <b>18 156</b>    | <b>20 350</b>    | <b>22 255</b>    | <b>26 258</b>    | <b>34 924</b>    | <b>40 666</b>    |
| Armenia                  | 4              | 4              | 2              | 2                | 2                | 3                | 2                | 2                | 2                |
| Azerbaijan               | 2              | 5              | 23             | 22               | 83               | 105              | 96               | 91               | 83               |
| Georgia                  |                |                | 9              | 88               | 84               | 85               | 91               | 83               | 88               |
| Russian Fed              | 5              | 6              | 6              | 140              | 232              | 331              | 1 241            | 3 311            | 5 548            |
| Türkiye                  | 8 520          | 11 652         | 15 517         | 17 904           | 19 949           | 21 731           | 24 828           | 31 437           | 34 945           |

# Wind energy

## Énergie éolienne

## Energía eólica

| PROD (GWh)            | 2014           | 2015           | 2016           | 2017           | 2018           | 2019           | 2020           | 2021           | 2022           |
|-----------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| <b>Europe</b>         | <b>258 133</b> | <b>307 629</b> | <b>307 643</b> | <b>367 189</b> | <b>383 635</b> | <b>440 782</b> | <b>488 989</b> | <b>469 134</b> | <b>522 443</b> |
| Austria               | 3 846          | 4 840          | 5 235          | 6 572          | 6 030          | 7 450          | 6 792          | 6 740          | 7 245          |
| Belarus               | 11             | 26             | 75             | 97             | 99             | 178            | 194            | 173            | 177            |
| Belgium               | 4 615          | 5 574          | 5 420          | 6 521          | 7 574          | 9 755          | 12 819         | 11 998         | 12 353         |
| Bosnia Herzg          | 1              | 1              | 1              | 1              | 103            | 254            | 262            | 382            | 391            |
| Bulgaria              | 1 331          | 1 452          | 1 425          | 1 504          | 1 318          | 1 317          | 1 477          | 1 434          | 1 499          |
| Croatia               | 730            | 796            | 1 014          | 1 204          | 1 335          | 1 467          | 1 721          | 2 062          | 2 138          |
| Cyprus                | 183            | 222            | 227            | 211            | 221            | 239            | 240            | 246            | 224            |
| Czechia               | 477            | 573            | 497            | 591            | 609            | 700            | 699            | 602            | 641            |
| Denmark               | 13 079         | 14 133         | 12 782         | 14 780         | 13 902         | 16 150         | 16 330         | 16 054         | 19 028         |
| Estonia               | 604            | 715            | 594            | 723            | 636            | 687            | 844            | 733            | 668            |
| Faroe Islands         | 35             | 56             | 52             | 60             | 64             | 53             | 47             | 54             | 90             |
| Finland               | 1 107          | 2 327          | 3 068          | 4 795          | 5 839          | 6 025          | 8 256          | 8 507          | 12 022         |
| France                | 17 324         | 21 421         | 21 381         | 24 609         | 28 599         | 34 722         | 40 045         | 37 119         | 38 004         |
| Germany               | 58 497         | 80 624         | 79 924         | 105 693        | 109 951        | 125 894        | 132 102        | 114 169        | 124 816        |
| Greece                | 3 689          | 4 621          | 5 146          | 5 537          | 6 300          | 7 266          | 9 310          | 10 483         | 10 883         |
| Hungary               | 657            | 693            | 684            | 758            | 607            | 729            | 655            | 664            | 610            |
| Iceland               | 8              | 11             | 9              | 8              | 4              | 7              | 7              | 6              | 6              |
| Ireland               | 5 140          | 6 573          | 6 147          | 7 444          | 8 640          | 10 019         | 11 549         | 9 778          | 11 208         |
| Italy                 | 15 178         | 14 844         | 17 689         | 17 742         | 17 716         | 20 202         | 18 762         | 20 927         | 20 494         |
| Kosovo*               | 0              | 0              | 0              | 0              | 30             | 91             | 90             | 126            | 363            |
| Latvia                | 140            | 147            | 128            | 150            | 122            | 154            | 177            | 141            | 190            |
| Lithuania             | 639            | 810            | 1 136          | 1 364          | 1 144          | 1 499          | 1 552          | 1 362          | 1 512          |
| Luxembourg            | 80             | 102            | 101            | 235            | 255            | 281            | 351            | 314            | 312            |
| Malta                 | 0              | 0              | 0              | 0              | 0              | 0              | 0              | 0              | 0              |
| Moldova Rep           | 1              | 2              | 3              | 7              | 22             | 37             | 50             | 76             | 142            |
| Montenegro            |                |                |                | 97             | 143            | 295            | 315            | 320            | 325            |
| Netherlands           | 5 797          | 7 550          | 8 170          | 10 569         | 10 549         | 11 508         | 15 278         | 18 046         | 21 401         |
| North Macedonia       | 71             | 121            | 109            | 110            | 97             | 102            | 117            | 103            | 108            |
| Norway                | 2 217          | 2 515          | 2 116          | 2 854          | 3 877          | 5 525          | 9 913          | 11 769         | 14 810         |
| Poland                | 7 676          | 10 858         | 12 588         | 14 909         | 12 799         | 15 107         | 15 800         | 16 234         | 19 780         |
| Portugal              | 12 111         | 11 608         | 12 474         | 12 248         | 12 617         | 13 667         | 12 299         | 13 216         | 13 244         |
| Romania               | 6 201          | 7 063          | 6 590          | 7 407          | 6 322          | 6 773          | 6 945          | 6 576          | 6 997          |
| Serbia                | 0              | 1              | 26             | 48             | 150            | 898            | 976            | 1 085          | 949            |
| Slovakia              | 6              | 6              | 6              | 6              | 6              | 6              | 4              | 5              | 4              |
| Slovenia              | 4              | 6              | 6              | 6              | 6              | 6              | 6              | 6              | 6              |
| Spain                 | 52 013         | 49 325         | 48 905         | 49 127         | 50 896         | 55 647         | 56 444         | 62 061         | 62 784         |
| Sweden                | 11 235         | 16 322         | 15 479         | 17 609         | 16 623         | 19 847         | 27 526         | 27 244         | 33 253         |
| Switzerland           | 101            | 110            | 109            | 133            | 122            | 146            | 145            | 145            | 150            |
| UK                    | 31 959         | 40 275         | 37 159         | 49 641         | 56 908         | 63 835         | 75 380         | 64 663         | 80 257         |
| Ukraine               | 1 371          | 1 307          | 1 169          | 1 819          | 1 399          | 2 244          | 3 511          | 3 511          | 3 359          |
| <b>European Union</b> | <b>222 428</b> | <b>263 275</b> | <b>266 888</b> | <b>312 379</b> | <b>320 687</b> | <b>367 239</b> | <b>398 111</b> | <b>386 880</b> | <b>421 471</b> |
| <b>Middle East</b>    | <b>216</b>     | <b>380</b>     | <b>670</b>     | <b>948</b>     | <b>1 497</b>   | <b>1 736</b>   | <b>2 313</b>   | <b>2 762</b>   | <b>6 287</b>   |
| Bahrain               | 1              | 1              | 1              | 1              | 1              | 1              | 1              | 1              | 1              |
| Iran IR               | 198            | 242            | 264            | 306            | 585            | 634            | 587            | 759            | 759            |
| Israel                | 6              | 7              | 7              | 180            | 183            | 190            | 204            | 178            | 317            |
| Jordan                | 2              | 121            | 391            | 448            | 720            | 892            | 1 407          | 1 628          | 1 784          |
| Kuwait                |                |                |                |                | 2              | 4              | 5              | 71             | 1 722          |
| Lebanon               | 6              | 6              | 6              | 6              |                |                |                |                |                |
| Oman                  |                |                |                |                |                | 9              | 103            | 119            | 115            |
| Saudi Arabia          |                |                |                | 5              | 5              | 5              | 5              | 5              | 1 588          |
| Syrian AR             | 1              | 1              | 1              | 1              | 1              | 1              | 1              | 1              | 1              |
| United Arab Em        | 1              | 1              |                |                |                |                | 0              | 0              | 0              |
| <b>N America</b>      | <b>212 856</b> | <b>228 701</b> | <b>270 779</b> | <b>299 202</b> | <b>322 179</b> | <b>347 953</b> | <b>397 281</b> | <b>439 716</b> | <b>496 752</b> |
| Canada                | 22 538         | 26 964         | 30 930         | 31 511         | 33 468         | 32 873         | 35 761         | 36 006         | 36 853         |
| Greenland             |                |                |                |                | 0              | 0              | 0              | 0              | 0              |
| Mexico                | 6 426          | 8 745          | 10 378         | 10 442         | 12 877         | 16 880         | 19 702         | 20 896         | 20 629         |
| St Pierre Mq          | 0              |                |                |                |                |                |                |                |                |
| USA                   | 183 892        | 192 992        | 229 471        | 257 249        | 275 834        | 298 200        | 341 818        | 382 814        | 439 270        |
| <b>Oceania</b>        | <b>12 531</b>  | <b>13 907</b>  | <b>14 595</b>  | <b>14 741</b>  | <b>17 286</b>  | <b>20 036</b>  | <b>22 761</b>  | <b>27 226</b>  | <b>32 022</b>  |
| Australia             | 10 252         | 11 467         | 12 199         | 12 597         | 15 164         | 17 712         | 20 396         | 24 535         | 29 108         |
| Fiji                  | 4              | 6              | 4              | 2              | 3              | 3              | 1              | 0              | 0              |
| Fr Polynesia          | 0              | 0              | 0              | 0              | 0              | 0              | 0              | 0              | 0              |
| Guam                  |                |                | 0              | 1              | 1              | 1              | 1              | 1              | 1              |
| Marshall Is           | 0              | 0              | 0              | 0              | 0              | 0              | 0              | 0              | 0              |
| Micronesia            |                |                |                |                | 1              | 1              | 1              | 1              | 1              |
| New Caledon           | 57             | 62             | 45             | 45             | 45             | 57             | 49             | 41             | 43             |
| New Zealand           | 2 211          | 2 364          | 2 341          | 2 091          | 2 068          | 2 255          | 2 305          | 2 642          | 2 865          |
| Samoa                 | 0              | 0              | 0              | 0              | 0              | 0              | 0              | 0              | 0              |
| Tokelau               |                |                |                |                |                | 0              | 0              | 0              | 0              |
| Tonga                 | 0              | 0              | 0              | 0              | 0              | 1              | 3              | 2              | 1              |
| Vanuatu               | 7              | 8              | 5              | 5              | 4              | 6              | 6              | 4              | 3              |

**Wind energy**  
**Énergie éolienne**  
**Energía eólica**

| PROD (GWh)       | 2014          | 2015          | 2016          | 2017          | 2018          | 2019          | 2020          | 2021          | 2022           |
|------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|
| <b>S America</b> | <b>15 534</b> | <b>27 245</b> | <b>40 805</b> | <b>51 682</b> | <b>59 937</b> | <b>72 567</b> | <b>79 486</b> | <b>99 927</b> | <b>111 997</b> |
| Argentina        | 619           | 593           | 548           | 612           | 1 413         | 4 997         | 9 412         | 12 940        | 14 168         |
| Bolivia          | 8             | 11            | 35            | 60            | 59            | 70            | 64            | 120           | 441            |
| Brazil           | 12 210        | 21 626        | 33 489        | 42 373        | 48 475        | 55 986        | 57 051        | 72 286        | 81 632         |
| Chile            | 1 443         | 2 115         | 2 449         | 3 626         | 3 588         | 4 895         | 5 602         | 7 628         | 8 893          |
| Colombia         | 70            | 68            | 51            | 3             | 43            | 63            | 10            | 60            | 74             |
| Ecuador          | 80            | 99            | 84            | 73            | 80            | 86            | 77            | 62            | 61             |
| Falklands Malv   | 5             | 5             | 6             | 5             | 5             | 5             | 4             | 4             | 5              |
| Guyana           | 0             | 0             | 0             | 0             | 0             | 0             | 0             | 0             | 0              |
| Paraguay         |               |               |               |               |               |               | 0             | 0             | 0              |
| Peru             | 258           | 596           | 1 060         | 1 073         | 1 502         | 1 655         | 1 814         | 1 823         | 1 932          |
| South Georgia    | 0             | 0             | 0             | 0             | 0             | 0             | 0             | 0             | 0              |
| Uruguay          | 728           | 2 057         | 2 986         | 3 760         | 4 727         | 4 749         | 5 431         | 4 984         | 4 776          |
| Venezuela        | 113           | 74            | 98            | 95            | 43            | 60            | 20            | 19            | 16             |

**Onshore wind energy**  
**Énergie éolienne terrestre**  
**Energía eólica terrestre**

| CAP (MW)          | 2014     | 2015     | 2016     | 2017     | 2018     | 2019      | 2020      | 2021      | 2022      | 2023      |
|-------------------|----------|----------|----------|----------|----------|-----------|-----------|-----------|-----------|-----------|
| World             | 340 956  | 404 700  | 452 883  | 496 084  | 540 079  | 594 426   | 699 091   | 770 043   | 840 279   | 944 205   |
| Africa            | 2 399    | 3 320    | 3 831    | 4 578    | 5 471    | 5 528     | 6 514     | 6 909     | 7 745     | 8 654     |
| Algeria           | 10       | 10       | 10       | 10 e     | 10 e     | 10 e      | 10 e      | 10 e      | 10 e      | 10 e      |
| Cabo Verde        | 27       | 27       | 27       | 27 o     | 27 o     | 27 o      | 27 o      | 27 o      | 27 o      | 27 o      |
| Chad              |          |          | 1 u      | 1 e      | 1 e      | 1 e       | 1 o       | 1 e       | 1 e       | 1 e       |
| Djibouti          |          |          |          |          |          |           |           | 20 u      | 20 e      | 80 e      |
| Egypt             | 555 o    | 755 o    | 755 o    | 755 o    | 1130 o   | 1132 e    | 1380 e    | 1640 e    | 1643 e    | 1890 e    |
| Eritrea           | 1 e      | 1 e      | 1 e      | 1 e      | 1 e      | 1 e       | 1 e       | 1 e       | 1 e       | 1 e       |
| Ethiopia          | 171      | 324      | 324 u    | 324 e    | 324 e    | 324       | 324       | 404 e     | 404 e     | 324 e     |
| Gambia            | 1 o      | 1 o      | 1 o      | 1 o      | 1 e      | 1 e       | 1 e       | 1 e       | 1 e       | 1 e       |
| Ghana             | 0 o      | 0 e      | 0 e      | 0 e      | 0 e      | 0 e       | 0 e       | 0 e       | 0 o       | 0 e       |
| Kenya             | 6 o      | 26 e     | 26 e     | 26 e     | 336 e    | 336 e     | 336 e     | 436 e     | 436 e     | 436 e     |
| Madagascar        | 0 o      | 0 o      | 0 o      | 0 e      | 0 e      | 0 e       | 0 e       | 0 e       | 0 e       | 0 e       |
| Mauritania        | 4 o      | 34 o     | 34 o     | 34 o     | 34 e     | 34 e      | 34 e      | 34 e      | 34 e      | 137 e     |
| Mauritius         | 1        | 1        | 11 o     | 11 e     | 11 e     | 11 e      | 11 e      | 11 e      | 11 e      | 11 e      |
| Morocco           | 797      | 797      | 902 o    | 1 022 o  | 1 225 o  | 1 225 e   | 1 435 e   | 1 471 e   | 1 558 e   | 1 858 e   |
| Namibia           | 0 e      | 0 e      | 0 e      | 5 e      | 5 e      | 5 e       | 5 e       | 5 e       | 5 e       | 5 e       |
| Reunion           | 15 o     | 15 o     | 17 o     | 17 e     | 17 o     | 17 e      | 17 e      | 17 e      | 15 o      | 15 e      |
| Senegal           |          |          |          |          | 55 o     | 159 o     | 159 e     | 159 e     | 159 e     | 159 e     |
| Seychelles        | 6 o      | 6 o      | 6 o      | 6 o      | 6 e      | 6 e       | 6 o       | 6 o       | 6 e       | 6 e       |
| Somalia           | 2 u      | 3 u      | 3 u      | 4 u      | 4 e      | 4 e       | 4         | 4 e       | 4 e       | 4 e       |
| South Africa      | 569 o    | 1 079 o  | 1 473 o  | 2 094 o  | 2 094 o  | 2 094 e   | 2 516 u   | 2 495 u   | 3 163 u   | 3 442 u   |
| Tanzania          |          |          |          |          |          |           | 2 u       | 2 e       | 2 e       | 2 e       |
| Tunisia           | 233 o    | 240 o    | 240 o    | 240 o    | 245 o    | 245 o     | 245 o     | 245 e     | 245 e     | 245 e     |
| Asia              | 123 854  | 161 083  | 182 427  | 201 939  | 224 144  | 251 373   | 322 529   | 356 933   | 393 957   | 468 310   |
| Afghanistan       | 0 e      | 0 e      | 0 e      | 0 e      | 0 e      | 0 e       | 0 e       | 0 e       | 0 e       | 0 e       |
| Bangladesh        | 2 o      | 3 o      | 3 o      | 3 o      | 3 e      | 3 o       | 3 o       | 3 o       | 3 o       | 3 o       |
| Bhutan            | 1 u      | 1 e      | 1 e      | 1 e      | 1 e      | 1 e       | 1 e       | 1 e       | 1 e       | 1 e       |
| Cambodia          | 0 e      | 0 e      | 0 e      | 0 e      | 0 e      | 0 e       | 0 e       | 0 e       | 0 e       | 0 e       |
| China             | 96 379   | 130 489  | 147 037  | 161 586  | 180 077  | 203 652 e | 273 003 o | 302 583 e | 335 504 e | 404 605 e |
| China HK SAR      |          |          | 1        | 1        | 1        | 1         | 1         | 1         | 1         | 1         |
| Chinese Taipei    | 637 o    | 647 o    | 682 o    | 684 o    | 705 o    | 717 o     | 809 o     | 796 o     | 836 o     | 1105 o    |
| India             | 22 465 o | 25 088 o | 28 700 o | 32 848 o | 35 288 o | 37 505 o  | 38 559 o  | 40 067 o  | 41 930 o  | 44 736 o  |
| Indonesia         | 1 o      | 1 o      | 1 o      | 1 o      | 144 o    | 154 o     | 154 e     | 154 o     | 154 o     | 152 e     |
| Japan             | 2 703    | 2 749    | 3 140    | 3 418    | 3 433    | 3 886     | 4 061     | 4 210     | 4 293     | 5 153 o   |
| Kazakhstan        | 53       | 72       | 98       | 112      | 121 o    | 284 e     | 486       | 684       | 1 108     | 1 440 o   |
| Korea DPR         | 1 u      | 1 u      | 1 u      | 1 u      | 1 u      | 2 u       | 2 e       | 2 e       | 2 e       | 2 e       |
| Korea Rep         | 635      | 843      | 995      | 1 098    | 1 230    | 1 421     | 1 509 u   | 1 573     | 1 810     | 2 069 o   |
| Maldives          | 1 e      | 1 e      | 1 e      | 1 e      | 1 e      | 1 e       | 1 e       | 1 e       | 1 e       | 1 e       |
| Mongolia          | 51 e     | 51 e     | 51 e     | 101 e    | 156 o    | 156 e     | 156       | 156       | 156 e     | 156 e     |
| Myanmar           | 0 e      | 0 e      | 0 e      | 0 e      | 0 e      | 0 e       | 0 e       | 0 e       | 0 e       | 0 e       |
| Nepal             | 0 u      | 0 u      | 0 u      | 0 e      | 0 o      | 0 o       | 0 e       | 0 e       | 0 e       | 0 e       |
| Pakistan          | 206 e    | 308 e    | 591 e    | 789 e    | 1 186 e  | 1 236 e   | 1 236 e   | 1 335 e   | 1 845 e   | 1 845 e   |
| Philippines       | 337 o    | 427 o    | 427 o    | 427 o    | 427 o    | 443 o     | 443 o     | 443 e     | 443 o     | 443 e     |
| Singapore         |          |          |          | 0 u      | 0 e      | 0 e       | 0 e       | 0 e       | 0 e       | 0 e       |
| Sri Lanka         | 121 o    | 131 o    | 131 o    | 131 o    | 128 o    | 128 e     | 179 o     | 252 o     | 252 o     | 267 o     |
| Thailand          | 225      | 234      | 507      | 628 o    | 1 103 o  | 1 507 o   | 1 507 o   | 1 545 o   | 1 545 o   | 1 545 o   |
| Uzbekistan        |          |          |          | 1 o      | 1 o      | 1 e       | 1         | 1 e       | 1         | 1 e       |
| Viet Nam          | 37 u     | 37 u     | 61 e     | 106 e    | 138 u    | 275 e     | 419 e     | 3 124 e   | 4 071 e   | 4 784 e   |
| C America + Carib | 927      | 1 246    | 1 485    | 1 610    | 1 737    | 1 955     | 1 969     | 1 992     | 2 110     | 2 128     |
| Aruba             | 30       | 30       | 30       | 30       | 30 e     | 30 o      | 30 e      | 30 e      | 30 e      | 30 e      |
| Bahamas           | 0 e      | 0 e      | 0 e      | 0 e      | 0 e      | 0 e       | 0 e       | 0 e       | 0 e       | 0 e       |
| Barbados          | 0 u      | 0 u      | 0 u      | 0 u      | 0 u      | 0 u       | 0 u       | 1 u       | 1 e       | 1 e       |
| Belize            | 0 u      | 0 u      | 0 u      | 0 u      | 0 u      | 0 u       | 0 u       | 0 u       | 0 e       | 0 e       |
| BES Islands       | 11 o      | 11 o      | 11 o      | 11 o      | 11 e      |
| Br Virgin Is      | 1 o      | 1 o      | 1 o      | 1 o      | 1 o      | 1 o       | 1 o       | 1 o       | 1 o       | 1 u       |
| Cayman Is         |          |          |          |          | 1 u      | 1 e       | 1 e       | 1 e       | 1 e       | 1 e       |
| Costa Rica        | 196 o    | 278 o    | 319 o    | 378 o    | 408 o    | 411 o     | 394 o     | 390 o     | 390 o     | 408       |
| Cuba              | 16 o     | 16 e      |
| Curacao           | 30       | 30       | 30       | 47 o     | 47 o     | 47 o      | 47 o      | 47 e      | 47 e      | 47 e      |
| Dominica          | 0 e      | 0 e      | 0 e      | 0 e      | 0 e      | 0 e       | 0 e       | 0 e       | 0 e       | 0 e       |
| Dominican Rep     | 80       | 86       | 135 o    | 135 o    | 183 o    | 370 o     | 370       | 417 o     | 417       | 417       |
| El Salvador       |          |          |          |          |          | 36 o      | 54 o      | 54 e      | 54 o      | 54 o      |
| Grenada           | 0 u      | 0 u      | 0 u      | 0 u      | 0 u      | 0 e       | 0 e       | 0 e       | 0 e       | 0 e       |
| Guadeloupe        | 26 o     | 27 o     | 27 o     | 27 o     | 43 o     | 48 o      | 42 o      | 52 o      | 56 o      | 56 o      |
| Guatemala         |          |          | 76       | 76       | 107 o    | 107 o     | 107 o     | 107 o     | 107 o     | 107 o     |
| Haiti             |          |          |          |          | 0 u      | 0 e       | 0 e       | 0 e       | 0 e       | 0 e       |
| Honduras          | 152      | 156 e    | 179 e    | 229 e    | 229 e    | 239 e     | 239 e     | 239 e     | 239 e     | 239 o     |
| Jamaica           | 42 e     | 42 e     | 102 e    | 102 e    | 102 e    | 102 e     | 102 e     | 102 e     | 102 e     | 102 e     |
| Martinique        | 1 o      | 1 o      | 1 o      | 1 e      | 1 o      | 14        | 15        | 14        | 14 e      | 14 e      |
| Nicaragua         | 186      | 186      | 186      | 186      | 186 o    | 186 o     | 186 e     | 186 e     | 186 e     | 186 e     |
| Panama            | 55       | 205 o    | 270      | 270      | 270 o    | 270       | 270 e     | 270 o     | 336 o     | 336 o     |
| Puerto Rico       | 99 o      | 99 o      | 99 o      | 99 o      | 99 o      |
| St Kitts Nevis    | 2        | 2        | 2        | 2 u      | 2 e      | 2 e       | 2 e       | 2 e       | 2 e       | 2 e       |
| Trinidad Tobago   |          |          | 0        | 0        | 0 e      | 0 e       | 0 e       | 0 e       | 0 e       | 0 e       |
| US Virgin Is      | 0 o      | 0 o      | 0 o      | 0 o      | 0 e      | 0 e       | 0 e       | 0 e       | 0 e       | 0         |
| Eurasia           | 3 645    | 4 525    | 5 801    | 6 566    | 7 146    | 7 783     | 9 868     | 12 652    | 13 702    | 14 305    |
| Armenia           | 3        | 3        | 3 o      | 3 e      | 3 o      | 3 e       | 3 e       | 3         | 3         | 3 o       |
| Azerbaijan        | 3        | 8        | 16 u     | 16 u     | 66 o     | 66 e      | 66        | 64 o      | 67 u      |           |
| Georgia           |          |          | 20       | 20       | 20       | 21        | 21 o      | 21 o      | 21 u      | 21 u      |
| Russian Fed       | 10 e     | 11 e     | 11 e     | 11 e     | 52 e     | 102 e     | 945       | 1 955 o   | 2 218     | 2 518 e   |
| Türkiye           | 3 630    | 4 503    | 5 751    | 6 516    | 7 005    | 7 591     | 8 832     | 10 607    | 11 396    | 11 697 o  |

# Onshore wind energy

## Énergie éolienne terrestre

## Energía eólica terrestre

| CAP (MW)              | 2014           | 2015           | 2016           | 2017           | 2018           | 2019           | 2020           | 2021           | 2022           | 2023           |
|-----------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| <b>Europe</b>         | <b>122 212</b> | <b>132 008</b> | <b>143 084</b> | <b>154 805</b> | <b>163 049</b> | <b>174 130</b> | <b>182 956</b> | <b>195 090</b> | <b>210 240</b> | <b>222 760</b> |
| Austria               | 2 110          | 2 489          | 2 730          | 2 887          | 3 133          | 3 224          | 3 226          | 3 408          | 3 579          | 3 977 o        |
| Belarus               | 9              | 22             | 62             | 84             | 92             | 112            | 112            | 120            | 122 u          |                |
| Belgium               | 1 225          | 1 469          | 1 622          | 1 902          | 2 119          | 2 308          | 2 411          | 2 687          | 3 042          | 3 242 u        |
| Bosnia Herzg          | 0 o            | 0 o            | 0 o            | 0 o            | 51             | 87             | 87             | 135 u          | 135            | 135 o          |
| Bulgaria              | 699            | 699            | 699            | 698            | 699            | 703            | 703            | 704            | 702            | 702 e          |
| Croatia               | 339            | 418            | 483            | 576            | 586            | 646            | 801            | 987            | 987            | 1 143 o        |
| Cyprus                | 147            | 158            | 158            | 158            | 158            | 158 o          | 158 o          | 158            | 158            | 158 e          |
| Czechia               | 278            | 281            | 282            | 308            | 316            | 339            | 339            | 339            | 339            | 343 u          |
| Denmark               | 3 615          | 3 806          | 3 974          | 4 225          | 4 422          | 4 410          | 4 558          | 4 698          | 4 778          | 4 832 u        |
| Estonia               | 275            | 300            | 310            | 312            | 310            | 316            | 317            | 315            | 316            | 408 o          |
| Faroe Islands         | 20 o           | 20 o           | 20 o           | 20 e           | 16 o           | 13 o           | 19 o           | 23 o           | 23             | 23 e           |
| Finland               | 601 e          | 973 e          | 1 533 e        | 1 971          | 1 968 o        | 2 211          | 2 513          | 3 184          | 5 604          | 6 884          |
| France                | 9 191          | 10 287         | 11 556         | 13 489         | 14 887         | 16 413         | 17 521         | 18 537         | 20 310         | 20 310         |
| Germany               | 37 620 o       | 41 297 o       | 45 303         | 50 174         | 52 328         | 53 187         | 54 414         | 55 904         | 58 014         | 61 052         |
| Greece                | 1 978          | 2 091          | 2 370          | 2 624          | 2 877          | 3 589          | 4 119          | 4 649          | 4 702          | 5 220 o        |
| Hungary               | 329            | 329            | 329            | 329            | 329            | 323            | 323            | 324            | 324            | 326            |
| Iceland               | 3              | 3              | 3              | 2              | 2              | 2              | 2              | 2              | 2              | 2 e            |
| Ireland               | 2 258          | 2 426          | 2 776          | 3 294          | 3 649          | 4 101          | 4 282          | 4 314          | 4 511          | 4 782 o        |
| Italy                 | 8 683          | 9 137          | 9 384          | 9 737          | 10 230         | 10 679         | 10 871         | 11 254         | 11 821         | 12 308 o       |
| Kosovo*               | 1              | 1              | 1              | 34             | 34             | 34             | 34             | 34             | 68             | 137 u          |
| Latvia                | 69             | 68             | 70             | 77             | 78             | 78             | 78             | 77             | 82             | 141 u          |
| Lithuania             | 288            | 436            | 509            | 518            | 533            | 534            | 540            | 671            | 946            | 1 287 o        |
| Luxembourg            | 58             | 64             | 120            | 120            | 123            | 136            | 153            | 136            | 165            | 221 o          |
| Malta                 | 0              | 0              | 0              | 0              | 0 e            | 0 e            | 0              | 0              | 0              | 0 e            |
| Moldova Rep           | 1              | 1              | 2 o            | 9 o            | 33             | 35             | 41             | 67 o           | 115 o          | 141 o          |
| Montenegro            |                |                |                | 72 u           | 72             | 118 u          | 118 e          | 118 u          | 118            | 118 e          |
| Netherlands           | 2 637 o        | 3 034          | 3 300          | 3 245          | 3 436          | 3 527          | 4 188          | 5 214          | 6 185          | 6 771 o        |
| North Macedonia       | 37             | 37             | 37             | 37 u           | 37 u           | 37 o           | 37 o           | 37 u           | 73 o           | 110 o          |
| Norway                | 857            | 865 e          | 881 e          | 1 205 o        | 1 708          | 2 912          | 4 028          | 5 047          | 5 060          | 5 063 o        |
| Poland                | 3 836          | 4 886          | 5 747          | 5 759          | 5 766          | 5 838          | 6 298          | 6 967          | 8 150          | 9 307 o        |
| Portugal              | 4 855          | 4 935          | 5 124          | 5 124          | 5 172          | 5 223          | 5 097          | 5 402          | 5 513          | 5 592 o        |
| Romania               | 3 244          | 3 130          | 3 025          | 3 030          | 3 032          | 3 038          | 3 013          | 3 015          | 3 015          | 3 087 u        |
| Serbia                | 1              | 10 e           | 17             | 25 u           | 227            | 398            | 398            | 398 o          | 398            | 511 o          |
| Slovakia              | 3              | 3              | 3              | 4 u            | 3              | 4              | 4              | 4              | 4              | 4 e            |
| Slovenia              | 3              | 3              | 3              | 3              | 3              | 3              | 3              | 3              | 3              | 3 e            |
| Spain                 | 22 920         | 22 938 e       | 22 985         | 23 119         | 23 400         | 25 585         | 26 814         | 27 903         | 30 109         | 31 021 o       |
| Sweden                | 4 875          | 5 606          | 6 232          | 6 408          | 7 097          | 8 478          | 9 773          | 11 923         | 14 086         | 16 059 u       |
| Switzerland           | 60             | 60             | 75             | 75 u           | 75 o           | 75 e           | 87             | 87             | 87 u           | 87 e           |
| UK                    | 8 573          | 9 212          | 10 833         | 12 597         | 13 425         | 13 999         | 14 075         | 14 493         | 14 835         | 15 370 o       |
| Ukraine               | 514            | 514            | 526            | 553            | 621 o          | 1 258 o        | 1 402          | 1 761 u        | 1 761 e        | 1 761 e        |
| <b>European Union</b> | <b>112 178</b> | <b>121 305</b> | <b>130 671</b> | <b>140 137</b> | <b>146 717</b> | <b>155 130</b> | <b>162 591</b> | <b>172 860</b> | <b>187 531</b> | <b>199 266</b> |
| <b>Middle East</b>    | <b>165</b>     | <b>286</b>     | <b>409</b>     | <b>494</b>     | <b>623</b>     | <b>785</b>     | <b>934</b>     | <b>1 039</b>   | <b>1 564</b>   | <b>1 866</b>   |
| Bahrain               | 1              | 1              | 1              | 1              | 1              | 1              | 1              | 1              | 3              | 3              |
| Iran IR               | 149            | 153            | 191            | 259 o          | 282 o          | 305            | 308            | 310 o          | 342 u          | 365 u          |
| Israël                | 6 o            | 6 e            | 27 e           | 27 e           | 27 e           | 27 e           | 27 e           | 27 e           | 136 u          | 316 u          |
| Jordan                | 1 o            | 118 o          | 184 o          | 198 o          | 295 o          | 384 o          | 529 o          | 632 o          | 614 e          | 614 e          |
| Kuwait                | 2 e            | 2 e            | 2 e            | 2 e            | 12 e           | 12 e           | 12 e           | 12 e           | 12 e           | 12 e           |
| Lebanon               | 3 u            | 3 e            | 3 e            | 3 e            | 3 e            | 3 e            | 3 e            | 3 e            | 3 e            | 3 e            |
| Oman                  |                |                |                |                | 50             | 50 e           |
| Saudi Arabia          |                |                |                | 3 e            | 3 e            | 3 e            | 3 e            | 3 e            | 403 e          | 403 e          |
| Syrian AR             | 1 e            | 1 e            | 1 e            | 1 e            | 1 e            | 1 e            | 1 e            | 1 e            | 1 e            | 1 e            |
| United Arab Em        | 2 e            | 2 e            | 2 e            |                |                |                | 0              | 0              | 0              | 99             |
| <b>N America</b>      | <b>76 694</b>  | <b>87 252</b>  | <b>97 497</b>  | <b>104 232</b> | <b>111 633</b> | <b>123 568</b> | <b>139 162</b> | <b>154 169</b> | <b>164 347</b> | <b>172 286</b> |
| Canada                | 9 694          | 11 214         | 11 973         | 12 250         | 12 816         | 13 220         | 13 532 o       | 13 722 o       | 15 081 o       | 16 989         |
| Greenland             |                |                |                |                | 0 o            | 0 o            | 0 e            | 0 e            | 0              | 1              |
| Mexico                | 2 569 o        | 3 271 o        | 4 051 o        | 4 180 o        | 4 180          | 6 541          | 6 995 o        | 7 469 o        | 7 634 o        | 7 318 o        |
| St Pierre Mq          | 1 e            |                |                |                |                |                |                |                |                |                |
| USA                   | 64 430 o       | 72 767 o       | 81 473 o       | 87 801 o       | 94 637 o       | 103 806 o      | 118 634 o      | 132 978 o      | 141 633 o      | 147 979 o      |
| <b>Oceania</b>        | <b>4 531</b>   | <b>5 059</b>   | <b>5 425</b>   | <b>6 149</b>   | <b>7 152</b>   | <b>8 625</b>   | <b>10 951</b>  | <b>11 522</b>  | <b>13 035</b>  | <b>14 045</b>  |
| Australia             | 3 797          | 4 318          | 4 683          | 5 407          | 6 409          | 7 881          | 10 207         | 10 555         | 11 966         | 12 911 u       |
| Fiji                  | 10 u           | 10 u           | 10 u           | 10 u           | 10 o           | 10 o           | 10 o           | 10 o           | 10 e           | 10 e           |
| Fr Polynesia          | 0 e            | 0 e            | 0 e            | 0 e            | 0 e            | 0 e            | 0 e            | 0 e            | 0 e            | 0 e            |
| Guam                  |                |                |                |                | 0 e            | 0 e            | 0 e            | 0 e            | 0 e            | 0 e            |
| Marshall Is           | 0 e            | 0 e            | 0 e            | 0 e            | 0 u            | 0 e            | 0 e            | 0 e            | 0 e            | 0 e            |
| Micronesia            |                |                |                |                | 1 u            | 1 e            | 1 e            | 1 e            | 1 e            | 1 e            |
| New Caledon           | 38 o           | 38 e           | 38 e           | 38 e           | 58             | 58 e           |
| New Zealand           | 682            | 689            | 690            | 690            | 690            | 690            | 690            | 913            | 994            | 1 059 o        |
| Samoa                 | 1 o            | 1 o            | 1 o            | 1 o            | 1 o            | 1 e            | 1 e            | 1 e            | 1 e            | 1 e            |
| Tokelau               |                |                |                |                |                | 0 o            | 0 e            | 0 e            | 0 e            | 0 e            |
| Tonga                 | 0 e            | 0 u            | 0 u            | 0 u            | 0 u            | 1 e            | 1 e            | 1 e            | 1 e            | 1 e            |
| Vanuatu               | 4 o            | 4 o            | 4 o            | 3 o            | 3 o            | 3 o            | 3 o            | 3 e            | 3 e            | 3 e            |

**Onshore wind energy**  
**Énergie éolienne terrestre**  
**Energía eólica terrestre**

| CAP (MW)         | 2014         | 2015         | 2016          | 2017          | 2018          | 2019          | 2020          | 2021          | 2022          | 2023          |
|------------------|--------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| <b>S America</b> | <b>6 528</b> | <b>9 921</b> | <b>12 923</b> | <b>15 711</b> | <b>19 124</b> | <b>20 677</b> | <b>24 208</b> | <b>29 737</b> | <b>33 580</b> | <b>39 852</b> |
| Argentina        | 188 o        | 188 o        | 188           | 228           | 751           | 1 609         | 2 624 o       | 3 292 o       | 3 310         | 3 706 o       |
| Bolivia          | 3            | 3            | 27            | 27            | 27            | 27            | 27            | 128           | 128           | 135           |
| Brazil           | 4 888 o      | 7 633 o      | 10 129 o      | 12 304 o      | 14 843 o      | 15 438 o      | 17 198 o      | 21 161 o      | 24 163 o      | 29 135 o      |
| Chile            | 732 o        | 907 o        | 1 034 o       | 1 305 o       | 1 524 o       | 1 620 o       | 2 340 o       | 3 137 o       | 3 830 o       | 4 510 o       |
| Colombia         | 18 o         | 18 o         | 18 o          | 18 o          | 18 o          | 18 o          | 18            | 18            | 18            | 18            |
| Ecuador          | 21 o         | 21 o         | 21 o          | 21 o          | 21 e          | 21 o          | 21 o          | 21 o          | 21 o          | 71            |
| Falklands Malv   | 3 e          | 3 e          | 3 e           | 3 e           | 3 e           | 3 e           | 3 e           | 3 e           | 3 e           | 3 e           |
| Guyana           | 0 e          | 0 e          | 0 e           | 0 e           | 0 e           | 0 e           | 0 e           | 0 e           | 0 e           | 0 e           |
| Paraguay         |              |              |               |               |               | 0             | 0             | 0             | 0             | 0 e           |
| Peru             | 143          | 240 o        | 240 o         | 240 o         | 372 e         | 372 e         | 409 e         | 409 o         | 539 e         | 705 e         |
| South Georgia    | 0            | 0            | 0             | 0             | 0             | 0             | 0 e           | 0 e           | 0 e           | 0 e           |
| Uruguay          | 481          | 857          | 1 211         | 1 513 o       | 1 513 o       | 1 516 o       | 1 516 o       | 1 516 e       | 1 516 o       | 1 516 o       |
| Venezuela        | 50 e         | 50 e         | 50 e          | 50 e          | 50 e          | 50 e          | 50 e          | 50 e          | 50 e          | 50 e          |

**Onshore wind energy**  
**Énergie éolienne terrestre**  
**Energía eólica terrestre**

| PROD (GWh)               | 2014           | 2015           | 2016           | 2017             | 2018             | 2019             | 2020             | 2021             | 2022             |
|--------------------------|----------------|----------------|----------------|------------------|------------------|------------------|------------------|------------------|------------------|
| <b>World</b>             | <b>687 473</b> | <b>791 634</b> | <b>911 314</b> | <b>1 074 873</b> | <b>1 190 628</b> | <b>1 327 998</b> | <b>1 484 242</b> | <b>1 702 702</b> | <b>1 936 387</b> |
| <b>Africa</b>            | <b>4 477</b>   | <b>5 457</b>   | <b>7 006</b>   | <b>7 152</b>     | <b>7 845</b>     | <b>9 727</b>     | <b>10 742</b>    | <b>12 737</b>    | <b>12 996</b>    |
| Algeria                  | 1              | 19             | 19             | 19 e             | 10 o             | 10 o             | 8 o              | 11 e             | 16 o             |
| Cabo Verde               | 83             | 79             | 77             | 68 o             | 80 o             | 74 o             | 64 o             | 74 o             | 74 o             |
| Chad                     |                |                | 9 e            | 9 e              | 9 e              | 9 e              | 9 e              | 9 e              | 9 e              |
| Djibouti                 |                |                |                |                  |                  |                  |                  | 69               | 69 e             |
| Egypt                    | 1 344 e        | 1 456 e        | 2 070 e        | 2 212 e          | 2 346 e          | 3 001 e          | 4 245 e          | 5 269 e          | 5 677 e          |
| Eritrea                  | 2 e            | 2 e            | 2 e            | 1 e              | 1 e              | 1 e              | 1 e              | 1 e              | 1 e              |
| Ethiopia                 | 526            | 499            | 786 e          | 782              | 533              | 848 e            | 609 e            | 817 e            | 561 e            |
| Gambia                   | 2 e            | 2 e            | 2 e            | 2 e              | 2 e              | 2 e              | 2 e              | 2 e              | 2 e              |
| Ghana                    |                | 0 e            | 0 e            | 0 e              | 0 e              | 0 e              | 0 e              | 0 e              | 0 e              |
| Kenya                    | 28 o           | 48 e           | 61 e           | 56 e             | 58 e             | 58 e             | 51 e             | 83 e             | 85 e             |
| Madagascar               | 0 e            | 0 e            | 0 e            | 0 e              | 0 e              | 0 e              | 0 e              | 0 e              | 0 e              |
| Mauritania               | 13 e           | 104 e          | 104 e          | 104 e            | 104 e            | 131 e            | 131 e            | 131 e            | 131 e            |
| Mauritius                | 3              | 3              | 18             | 15               | 15               | 15               | 18               | 15               | 15               |
| Morocco                  | 1 939          | 2 535          | 3 015          | 3 050 e          | 3 856 e          | 4 714 o          | 4 607            | 5 122 e          | 5 371 e          |
| Namibia                  | 1              | 1              | 1 e            | 22 o             | 22 o             | 22 o             | 22 o             | 22 e             | 22 e             |
| Reunion                  | 16 o           | 16 o           | 19 o           | 14 o             | 13 o             | 12 o             | 14 o             | 4 o              | 3 o              |
| Senegal                  |                |                |                |                  |                  | 23 o             | 179 o            | 400 o            | 396              |
| Seychelles               | 7 e            | 7 o            | 7 o            | 7 o              | 7 o              | 5 o              | 6 o              | 5 o              | 7                |
| Somalia                  | 4 e            | 5 e            | 5 e            | 6 e              | 6 e              | 6 e              | 6 e              | 6 e              | 6 e              |
| South Africa             | 1 u            | 234 u          | 337 u          | 335 u            | 329 u            | 294 u            | 300 u            | 266 e            | 224 e            |
| Tanzania                 |                |                |                |                  |                  |                  | 4 e              | 4 e              | 4 e              |
| Tunisia                  | 507 o          | 448 o          | 474 o          | 449 o            | 453 o            | 500 o            | 465 o            | 425 o            | 322 o            |
| <b>Asia</b>              | <b>195 887</b> | <b>227 803</b> | <b>288 687</b> | <b>362 686</b>   | <b>430 697</b>   | <b>479 159</b>   | <b>538 993</b>   | <b>693 494</b>   | <b>802 102</b>   |
| Afghanistan              | 0 e            | 0 e            | 0 e            | 0 e              | 0 e              | 0 e              | 0 e              | 0 e              | 0 e              |
| Bangladesh               | 3 e            | 4 e            | 5 e            | 5 e              | 5 e              | 5 e              | 5 e              | 5 e              | 5 e              |
| Bhutan                   |                |                | 1 o            | 1 o              | 1 o              | 1                | 0 o              | 0 o              | 0 o              |
| Cambodia                 | 0 e            | 0 e            | 0 e            | 0 e              | 0 e              | 0 e              | 0 o              | 0 e              | 0 e              |
| China                    | 159 477        | 185 172        | 239 971        | 299 838          | 357 340 e        | 395 048 e        | 452 142 e        | 603 994 e        | 699 771 e        |
| China HK SAR             | 1              | 1              | 1              | 1                | 1                | 1                | 1                | 1                | 1 e              |
| Chinese Taipei           | 1 501 o        | 1 525 o        | 1 457 o        | 1 703 e          | 1 690 e          | 1 606 e          | 1 994 e          | 1 739 e          | 1 874 e          |
| India                    | 27 235 o       | 31 873 o       | 36 273 o       | 47 670 o         | 55 009 o         | 62 689 o         | 63 522 o         | 62 272 o         | 69 434 o         |
| Indonesia                | 1 o            | 4 o            | 6 o            | 6 e              | 8 e              | 8 e              | 8 e              | 8 o              | 8 o              |
| Japan                    | 5 130          | 5 487          | 6 061          | 6 385            | 7 376            | 7 513            | 8 865            | 9 308            | 9 192            |
| Kazakhstan               | 13             | 132            | 275            | 340              | 461              | 717              | 1 077            | 1 776 e          | 2 362 e          |
| Korea DPR                | 1 e            | 2 e            | 2 e            | 2 e              | 2 e              | 2 e              | 3 e              | 3 e              | 3 e              |
| Korea Rep                | 1 127 e        | 1 325 e        | 1 617 e        | 2 083 e          | 2 327 e          | 2 549 e          | 2 890 e          | 2 930 e          | 3 136 e          |
| Maldives                 | 2 e            | 2 e            | 2 e            | 2 e              | 2 e              | 2 e              | 2 e              | 2 e              | 2 e              |
| Mongolia                 | 126 e          | 154 e          | 159 e          | 155              | 340              | 460              | 458              | 564 o            | 510 o            |
| Myanmar                  |                | 0 u            | 0 u            | 0 u              | 0 e              | 0 e              | 0 e              | 0 e              | 0 e              |
| Nepal                    | 0 e            | 0 e            | 0 e            | 0 e              | 0 e              | 0 e              | 0 e              | 0 e              | 0 e              |
| Pakistan                 | 363 e          | 622 e          | 1 060 e        | 1 729 e          | 2 642 e          | 2 812 e          | 2 504 e          | 3 481 e          | 4 244 e          |
| Philippines              | 152            | 748            | 975 o          | 1 094 o          | 1 153 o          | 1 042 o          | 1 026 o          | 1 270 o          | 1 030 o          |
| Singapore                |                |                |                | 0 e              | 0 o              | 0 e              | 0 e              | 0 e              | 0 e              |
| Sri Lanka                | 272            | 343            | 345 o          | 367 o            | 326 o            | 348 o            | 332 o            | 653 o            | 738 o            |
| Thailand                 | 399 o          | 329 o          | 340 o          | 1 115 o          | 1 643 o          | 3 673 o          | 3 216 o          | 3 556 o          | 3 004 o          |
| Uzbekistan               |                |                |                |                  |                  | 16               | 16               | 1 o              |                  |
| Viet Nam                 | 80 e           | 80 e           | 137 e          | 189 e            | 369 e            | 667 e            | 931 e            | 1 929 e          | 6 787 e          |
| <b>C America + Carib</b> | <b>3 093</b>   | <b>3 961</b>   | <b>4 380</b>   | <b>4 430</b>     | <b>5 853</b>     | <b>6 143</b>     | <b>5 698</b>     | <b>6 244</b>     | <b>5 828</b>     |
| Aruba                    | 156            | 166            | 133 e          | 131 e            | 131 e            | 131 e            | 131 e            | 131 e            | 131 e            |
| Bahamas                  | 1 e            | 1 e            | 1 e            | 1 e              | 1 e              | 1 e              | 1 e              | 1 e              | 1 e              |
| Barbados                 | 0 e            | 0 e            | 0 u            | 0 e              | 0 e              | 0 u              | 0 u              | 0 e              | 0 e              |
| Belize                   | 0              | 0              | 0              | 0                | 0                | 0                | 0                | 0                | 0                |
| BES Islands              | 41             | 40 o           | 35 o           | 31 o             | 37 o             | 32 o             | 25 o             | 29 o             | 29 o             |
| Br Virgin Is             | 2 e            | 2 e            | 2 e            | 2 e              | 2 e              | 2 e              | 2 e              | 2 e              | 2 e              |
| Cayman Is                |                |                |                | 0 e              | 1 e              | 1 e              | 1 e              | 1 e              | 1 e              |
| Costa Rica               | 735 o          | 1 080 o        | 1 147 o        | 1 288 o          | 1 799 o          | 1 796 o          | 1 459 o          | 1 573 o          | 1 369 o          |
| Cuba                     | 19 e           | 21 e           | 21 e           | 21 e             | 44 e             | 66 e             | 69 e             | 70 e             | 64 e             |
| Curacao                  | 139 o          | 131 o          | 114 o          | 162 o            | 231 o            | 224 o            | 185 o            | 193              | 183              |
| Dominica                 | 1 e            | 1 e            | 1 e            | 1 e              | 1 e              | 1 e              | 1 e              | 1 e              | 1 e              |
| Dominican Rep            | 239            | 284            | 313            | 378              | 492              | 782 o            | 1 101 o          | 1 231 o          | 1 175 o          |
| El Salvador              |                |                |                |                  |                  |                  | 14 o             | 132 o            | 136              |
| Grenada                  | 0 e            | 0 e            | 0 e            | 0 e              | 0 e              | 0                | 0 e              | 0 e              | 0 e              |
| Guadeloupe               | 54             | 52             | 53 o           | 51 o             | 52 o             | 63 o             | 73               | 107 o            | 111 o            |
| Guatemala                | 107 o          | 215 o          | 218 o          | 320              | 331              | 313 o            | 324 o            | 314 o            |                  |
| Haiti                    |                |                |                | 0                | 0                | 0                | 0 e              | 0 e              | 0 o              |
| Honduras                 | 398            | 668 o          | 586 o          | 580 o            | 931 o            | 819              | 711 o            | 778 o            | 689 o            |
| Jamaica                  | 122 o          | 129 o          | 211 o          | 293 o            | 305 o            | 275 o            | 281 o            | 265 o            | 272              |
| Martinique               | 2              | 2              | 1 o            | 1 o              | 6 o              | 46 o             | 42 o             | 49 o             | 40               |
| Nicaragua                | 846 o          | 865 o          | 729 o          | 635 o            | 801 o            | 730 o            | 550 o            | 656 o            | 562 o            |
| Panama                   | 113 o          | 166 o          | 617 o          | 484 o            | 589 o            | 678 o            | 590 o            | 530 o            | 584 o            |
| Puerto Rico              | 218 o          | 239 o          | 193 o          | 149 o            | 108 o            | 159 o            | 143 o            | 166 o            | 156 o            |
| St Kitts Nevis           | 8              | 8              | 8 o            | 5 o              | 6 o              | 6 e              | 6 e              | 6 e              | 6 e              |
| Trinidad Tobago          |                | 0 e            | 0 e            | 0 e              | 0 e              | 0 e              | 0 e              | 0 e              | 0 e              |
| US Virgin Is             | 0 e            | 0 e            | 0 e            | 0 e              | 0 e              | 0 e              | 0 e              | 0 e              | 0 o              |
| <b>Eurasia</b>           | <b>8 531</b>   | <b>11 667</b>  | <b>15 557</b>  | <b>18 156</b>    | <b>20 350</b>    | <b>22 255</b>    | <b>26 258</b>    | <b>34 924</b>    | <b>40 666</b>    |
| Armenia                  | 4              | 4              | 2 o            | 2                | 2 o              | 3 o              | 2 o              | 2 o              | 2 o              |
| Azerbaijan               | 2              | 5              | 23             | 22               | 83               | 105              | 96               | 91 o             | 83 e             |
| Georgia                  |                |                | 9              | 88               | 84               | 85               | 91               | 83               | 88 e             |
| Russian Fed              | 5 e            | 6 e            | 6 e            | 140 e            | 232 e            | 331 e            | 1 241 e          | 3 311 e          | 5 548 e          |
| Türkiye                  | 8 520          | 11 652         | 15 517         | 17 904           | 19 949           | 21 731           | 24 828           | 31 437           | 34 945 o         |

**Onshore wind energy**  
**Énergie éolienne terrestre**  
**Energía eólica terrestre**

| PROD (GWh)            | 2014           | 2015           | 2016           | 2017           | 2018           | 2019           | 2020           | 2021           | 2022           |
|-----------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| <b>Europe</b>         | <b>234 347</b> | <b>272 514</b> | <b>268 937</b> | <b>315 979</b> | <b>325 086</b> | <b>368 524</b> | <b>400 855</b> | <b>385 817</b> | <b>427 883</b> |
| Austria               | 3 846          | 4 840          | 5 235          | 6 572          | 6 030          | 7 450          | 6 792          | 6 740          | 7 245          |
| Belarus               | 11             | 26             | 75             | 97             | 99             | 178            | 194            | 173            | 177 e          |
| Belgium               | 2 399          | 2 961          | 3 029          | 3 650          | 4 163          | 4 961          | 5 845          | 5 071          | 5 701          |
| Bosnia Herzg          | 1 e            | 1 e            | 1 e            | 1              | 103            | 254            | 262            | 382            | 391            |
| Bulgaria              | 1 331          | 1 452          | 1 425          | 1 504          | 1 318          | 1 317          | 1 477          | 1 434          | 1 499          |
| Croatia               | 730            | 796            | 1 014          | 1 204          | 1 335          | 1 467          | 1 721          | 2 062          | 2 138          |
| Cyprus                | 183            | 222            | 227            | 211            | 221            | 239            | 240            | 246            | 224            |
| Czechia               | 477            | 573            | 497            | 591            | 609            | 700            | 699            | 602            | 641            |
| Denmark               | 7 913          | 9 300          | 8 132          | 9 600          | 9 272          | 9 952          | 9 727          | 8 462          | 10 275         |
| Estonia               | 604 u          | 715            | 594            | 723 u          | 636            | 687            | 844            | 733            | 668            |
| Faroe Islands         | 35 o           | 56 o           | 52 o           | 60 o           | 64 o           | 53             | 54 o           | 54 o           | 90 o           |
| Finland               | 1 098          | 2 312          | 3 056          | 4 693          | 5 601          | 5 754          | 7 951          | 8 240          | 11 750         |
| France                | 17 324         | 21 421         | 21 381         | 24 609         | 28 599         | 34 722         | 40 045         | 37 119         | 38 004         |
| Germany               | 57 026         | 72 340         | 67 650         | 88 018         | 90 484         | 101 150        | 104 796        | 89 795         | 99 692         |
| Greece                | 3 689          | 4 621          | 5 146          | 5 537          | 6 300          | 7 266          | 9 310          | 10 483         | 10 883         |
| Hungary               | 657            | 693            | 684            | 758            | 607            | 729            | 655            | 664            | 610            |
| Iceland               | 8              | 11             | 9              | 8              | 4              | 7              | 7              | 6              | 6 u            |
| Ireland               | 5 059          | 6 492          | 6 066 e        | 7 363 e        | 8 559 e        | 9 938          | 11 468         | 9 697          | 11 127         |
| Italy                 | 15 178         | 14 844         | 17 689         | 17 742         | 17 716         | 20 202         | 18 762         | 20 927         | 20 494         |
| Kosovo*               | 0              | 0              | 0              | 0              | 30             | 91             | 90             | 126            | 363            |
| Latvia                | 140            | 147            | 128            | 150            | 122            | 154            | 177            | 141            | 190            |
| Lithuania             | 639            | 810            | 1 136          | 1 364          | 1 144          | 1 499          | 1 552          | 1 362          | 1 512          |
| Luxembourg            | 80             | 102            | 101            | 235            | 255            | 281            | 351            | 314            | 312            |
| Malta                 | 0              | 0              | 0              | 0              | 0              | 0              | 0              | 0              | 0              |
| Moldova Rep           | 1              | 2              | 3              | 7              | 22 e           | 37 e           | 50 e           | 76 e           | 142 e          |
| Montenegro            |                |                |                | 97             | 143            | 295            | 315            | 320            | 325            |
| Netherlands           | 5 049          | 6 420          | 5 901          | 6 869          | 6 918          | 7 935          | 9 794          | 10 094         | 13 386         |
| North Macedonia       | 71             | 121            | 109            | 110            | 97             | 102            | 117            | 103            | 108            |
| Norway                | 2 211          | 2 508          | 2 111          | 2 849          | 3 872 e        | 5 520 e        | 9 908 e        | 11 764 e       | 14 805 o       |
| Poland                | 7 676          | 10 858         | 12 588         | 14 909         | 12 799         | 15 107         | 15 800         | 16 234         | 19 780 o       |
| Portugal              | 12 108         | 11 603         | 12 474         | 12 248         | 12 617         | 13 667         | 12 247         | 13 164         | 13 166         |
| Romania               | 6 201          | 7 063          | 6 590          | 7 407          | 6 322          | 6 773          | 6 945          | 6 576          | 6 997 o        |
| Serbia                | 0 e            | 1 e            | 26             | 48             | 150            | 898            | 976            | 1 085          | 949 o          |
| Slovakia              | 6              | 6              | 6              | 6              | 6              | 6              | 4              | 5              | 4 o            |
| Slovenia              | 4              | 6              | 6              | 6              | 6              | 6              | 6              | 6              | 6 o            |
| Spain                 | 52 002         | 49 314         | 48 894         | 49 116         | 50 885         | 55 636         | 56 433         | 62 050 e       | 62 773 o       |
| Sweden                | 10 566         | 15 608         | 14 871         | 16 939         | 16 073         | 19 241         | 26 893         | 26 697         | 32 703 o       |
| Switzerland           | 101            | 110            | 109            | 133            | 122            | 146            | 145            | 145 u          | 150 u          |
| UK                    | 18 554 o       | 22 852 o       | 20 753 o       | 28 725 u       | 30 382 u       | 31 860 u       | 34 699 u       | 29 154 u       | 35 237 u       |
| Ukraine               | 1 371          | 1 307          | 1 169          | 1 819          | 1 399          | 2 244          | 3 511          | 3 511 e        | 3 359 e        |
| <b>European Union</b> | <b>212 053</b> | <b>245 589</b> | <b>244 593</b> | <b>282 091</b> | <b>288 669</b> | <b>326 962</b> | <b>350 663</b> | <b>339 077</b> | <b>371 935</b> |
| <b>Middle East</b>    | <b>216</b>     | <b>380</b>     | <b>670</b>     | <b>948</b>     | <b>1 497</b>   | <b>1 736</b>   | <b>2 313</b>   | <b>2 762</b>   | <b>6 287</b>   |
| Bahrain               | 1 u            | 1 u            | 1 u            | 1 u            | 1 e            | 1 e            | 1 e            | 1 e            | 1 e            |
| Iran IR               | 198            | 242            | 264            | 306 o          | 585 o          | 634            | 587            | 759 o          | 759 e          |
| Israel                | 6 o            | 7 o            | 7 o            | 180            | 183            | 190            | 204            | 178 u          | 317 e          |
| Jordan                | 2 o            | 121 o          | 391 o          | 448 o          | 720 o          | 892 o          | 1 407 o        | 1 628 o        | 1 784 o        |
| Kuwait                |                |                |                |                | 2 e            | 4 e            | 5 e            | 71 e           | 1 722 e        |
| Lebanon               | 6 u            | 6 e            | 6 e            | 6 e            |                |                |                |                |                |
| Oman                  |                |                |                |                |                | 9 o            | 103 o          | 119 o          | 115 o          |
| Saudi Arabia          |                |                |                | 5 e            | 5 e            | 5 e            | 5 e            | 5 e            | 1 588 e        |
| Syrian AR             | 1 e            | 1 e            | 1 e            | 1 e            | 1 e            | 1 e            | 1 e            | 1 e            | 1 e            |
| United Arab Em        | 1 e            | 1 e            |                |                |                |                | 0              | 0              | 0              |
| <b>N America</b>      | <b>212 856</b> | <b>228 701</b> | <b>270 676</b> | <b>299 099</b> | <b>322 076</b> | <b>347 850</b> | <b>397 136</b> | <b>439 571</b> | <b>496 607</b> |
| Canada                | 22 538         | 26 964         | 30 930         | 31 511         | 33 468 o       | 32 873 o       | 35 761 o       | 36 006 o       | 36 853 o       |
| Greenland             |                |                |                |                | 0 e            | 0 e            | 0              | 0 e            | 0              |
| Mexico                | 6 426 o        | 8 745 o        | 10 378 o       | 10 442 o       | 12 877 o       | 16 880 o       | 19 702 o       | 20 896 o       | 20 629 o       |
| St Pierre Mq          | 0 e            |                |                |                |                |                |                |                |                |
| USA                   | 183 892        | 192 992        | 229 368 o      | 257 146 o      | 275 731 o      | 298 097 o      | 341 673 o      | 382 669 o      | 439 125 o      |
| <b>Oceania</b>        | <b>12 531</b>  | <b>13 907</b>  | <b>14 595</b>  | <b>14 741</b>  | <b>17 286</b>  | <b>20 036</b>  | <b>22 761</b>  | <b>27 226</b>  | <b>32 022</b>  |
| Australia             | 10 252         | 11 467         | 12 199         | 12 597         | 15 164 o       | 17 712         | 20 396         | 24 535         | 29 108         |
| Fiji                  | 4 o            | 6 o            | 4 o            | 2 o            | 3 e            | 3 o            | 1 o            | 0 o            | 0 o            |
| Fr Polynesia          | 0 e            | 0 e            | 0 o            | 0 o            | 0 o            | 0 o            | 0 e            | 0 e            | 0 e            |
| Guam                  |                |                | 0 o            | 1 o            | 1 o            | 1 e            | 1              | 1 e            | 1 e            |
| Marshall Is           | 0 e            | 0 e            | 0 e            | 0 e            | 0 e            | 0 e            | 0 e            | 0 e            | 0 e            |
| Micronesia            |                |                |                |                | 1              | 1 e            | 1 e            | 1 e            | 1 e            |
| New Caledon           | 57 o           | 62 o           | 45 o           | 45 o           | 45 o           | 57 o           | 49 o           | 41 o           | 43             |
| New Zealand           | 2 211          | 2 364          | 2 341          | 2 091          | 2 068          | 2 255          | 2 305          | 2 642          | 2 865          |
| Samoa                 | 0 o            | 0 o            | 0 o            | 0 o            | 0 o            | 0              | 0              | 0              | 0              |
| Tokelau               |                |                |                |                |                | 0 e            | 0 e            | 0 e            | 0 e            |
| Tonga                 | 0 o            | 0 o            | 0 o            | 0 o            | 0 o            | 1 o            | 3              | 2              | 1              |
| Vanuatu               | 7 o            | 8 o            | 5 o            | 5 o            | 4 o            | 6 o            | 6              | 4              | 3              |

**Onshore wind energy**  
**Énergie éolienne terrestre**  
**Energía eólica terrestre**

| PROD (GWh)       | 2014          | 2015          | 2016          | 2017          | 2018          | 2019          | 2020          | 2021          | 2022           |
|------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|
| <b>S America</b> | <b>15 534</b> | <b>27 245</b> | <b>40 805</b> | <b>51 682</b> | <b>59 937</b> | <b>72 567</b> | <b>79 486</b> | <b>99 927</b> | <b>111 997</b> |
| Argentina        | 619           | 593           | 548           | 612           | 1 413         | 4 997         | 9 412         | 12 940 o      | 14 168 e       |
| Bolivia          | 8             | 11            | 35            | 60            | 59            | 70            | 64            | 120           | 441            |
| Brazil           | 12 210 o      | 21 626 o      | 33 489 o      | 42 373 o      | 48 475 o      | 55 986 o      | 57 051 o      | 72 286        | 81 632 o       |
| Chile            | 1 443         | 2 115         | 2 449         | 3 626         | 3 588         | 4 895         | 5 602 o       | 7 628         | 8 893 o        |
| Colombia         | 70            | 68            | 51            | 3             | 43            | 63            | 10 o          | 60            | 74             |
| Ecuador          | 80 o          | 99 o          | 84 o          | 73 o          | 80 o          | 86 o          | 77 o          | 62 o          | 61             |
| Falklands Malv   | 5 o           | 5 o           | 6 o           | 5 o           | 5 o           | 5 o           | 4 o           | 4 o           | 5 o            |
| Guyana           | 0             | 0 e           | 0 e           | 0 e           | 0 e           | 0 e           | 0 e           | 0 e           | 0 e            |
| Paraguay         |               |               |               |               |               |               | 0 e           | 0 e           | 0              |
| Peru             | 258 o         | 596 o         | 1 060 o       | 1 073 o       | 1 502         | 1 655 o       | 1 814 o       | 1 823 o       | 1 932 o        |
| South Georgia    | 0 e           | 0 e           | 0 e           | 0 e           | 0 e           | 0 e           | 0 e           | 0 e           | 0 e            |
| Uruguay          | 728 o         | 2 057 o       | 2 986 o       | 3 760 o       | 4 727 o       | 4 749 o       | 5 431 o       | 4 984 o       | 4 776 o        |
| Venezuela        | 113 o         | 74 o          | 98 o          | 95 o          | 43 o          | 60 o          | 20 o          | 19 o          | 16             |

# Offshore wind energy

## Énergie éolienne maritime

## Energía eólica marina

| CAP (MW)              | 2014         | 2015          | 2016          | 2017          | 2018          | 2019          | 2020          | 2021          | 2022          | 2023          |
|-----------------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| <b>World</b>          | <b>8 503</b> | <b>11 735</b> | <b>14 358</b> | <b>18 846</b> | <b>23 601</b> | <b>28 305</b> | <b>34 381</b> | <b>54 278</b> | <b>62 604</b> | <b>73 185</b> |
| <b>Asia</b>           | <b>516</b>   | <b>729</b>    | <b>1 685</b>  | <b>3 006</b>  | <b>4 833</b>  | <b>6 296</b>  | <b>9 412</b>  | <b>27 809</b> | <b>32 525</b> | <b>40 289</b> |
| China                 | 440          | 559           | 1 480         | 2 788 u       | 4 588 u       | 5 930         | 8 990         | 26 390        | 30 460        | 37 290        |
| Chinese Taipei        |              |               |               | 8 u           | 8 u           | 128 o         | 128 o         | 237 o         | 745 o         | 1 569 o       |
| Japan                 | 50           | 60            | 65            | 65 u          | 65 u          | 66            | 59            | 52            | 190           | 190 e         |
| Korea Rep             | 11           | 11            | 41            | 46 e          | 73 u          | 73 u          | 136 u         | 136 e         | 136 e         | 136 e         |
| Viet Nam              | 16 u         | 99 u          | 99 o          | 99 e          | 99 u          | 99 e          | 994 e         | 994 e         | 1104 o        |               |
| <b>Europe</b>         | <b>7 986</b> | <b>11 006</b> | <b>12 644</b> | <b>15 811</b> | <b>18 738</b> | <b>21 979</b> | <b>24 940</b> | <b>26 427</b> | <b>30 038</b> | <b>32 855</b> |
| Belgium               | 708          | 712           | 712           | 877           | 1 186         | 1 556         | 2 262         | 2 262         | 2 262         | 2 262 u       |
| Denmark               | 1 271        | 1 271         | 1 271         | 1 264         | 1 701         | 1 701         | 1 701         | 2 306         | 2 306         | 2 650 u       |
| Finland               | 26 u         | 32 u          | 32 u          | 73            | 73 o          | 73            | 73 u          | 73            | 73            | 73            |
| France                | 11           | 11            | 11            | 11            | 13            | 14            | 14            | 14            | 501           | 501           |
| Germany               | 994 o        | 3 283 o       | 4 132 o       | 5 406         | 6 393         | 7 555         | 7 787         | 7 807         | 8 149         | 8 407         |
| Ireland               | 25           | 25            | 25            | 25 u          | 25 o          | 25            | 25 o          | 25 e          | 25            | 25 e          |
| Netherlands           | 228 o        | 357 o         | 957 o         | 957           | 957           | 957           | 2 460         | 2 460         | 2 570         | 3 978 o       |
| Norway                | 2 u          | 2 u           | 2 u           | 2 o           | 2 u           | 2 u           | 2 e           | 2 e           | 2             | 2 e           |
| Portugal              | 2            | 2             |               |               |               |               | 25            | 25            | 25            | 25 e          |
| Spain                 | 5 u          | 5 u           | 5 u           | 5 u           | 5             | 5 o           | 5 e           | 5 o           | 5             | 7 u           |
| Sweden                | 213          | 213           | 203           | 203           | 203           | 203           | 203           | 193           | 193           | 193 e         |
| UK                    | 4 501        | 5 093         | 5 293         | 6 988         | 8 181         | 9 888         | 10 383        | 11 256        | 13 928        | 14 733 o      |
| <b>European Union</b> | <b>3 483</b> | <b>5 911</b>  | <b>7 348</b>  | <b>8 821</b>  | <b>10 555</b> | <b>12 089</b> | <b>14 555</b> | <b>15 169</b> | <b>16 108</b> | <b>18 120</b> |
| <b>N America</b>      | <b>0</b>     | <b>0</b>      | <b>29</b>     | <b>29</b>     | <b>29</b>     | <b>29</b>     | <b>29</b>     | <b>41</b>     | <b>41</b>     | <b>41</b>     |
| USA                   | 0 u          | 0 u           | 29 o          | 41 o          | 41 o          | 41 o          |

# Offshore wind energy

## Énergie éolienne maritime

## Energía eólica marina

| <b>PROD (GWh)</b>     | <b>2014</b>   | <b>2015</b>   | <b>2016</b>   | <b>2017</b>   | <b>2018</b>   | <b>2019</b>   | <b>2020</b>    | <b>2021</b>    | <b>2022</b>    |
|-----------------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|----------------|----------------|
| <b>World</b>          | <b>24 658</b> | <b>36 252</b> | <b>41 630</b> | <b>56 882</b> | <b>68 298</b> | <b>84 638</b> | <b>104 077</b> | <b>137 662</b> | <b>161 945</b> |
| <b>Asia</b>           | <b>872</b>    | <b>1 136</b>  | <b>2 821</b>  | <b>5 570</b>  | <b>9 647</b>  | <b>12 278</b> | <b>15 798</b>  | <b>54 200</b>  | <b>67 240</b>  |
| China                 | 729           | 794           | 2 417         | 5 177         | 9 112         | 11 512 e      | 14 896 e       | 52 711 e       | 63 572 e       |
| Chinese Taipei        |               |               |               | 20 o          | 19 e          | 287 e         | 315 e          | 518 e          | 1 670 e        |
| Japan                 | 87 e          | 93 e          | 105 e         | 105           | 105 o         | 105           | 105            | 105            | 105            |
| Korea Rep             | 19 e          | 17 e          | 66 e          | 86 e          | 138 e         | 131 e         | 261 e          | 253 e          | 236 e          |
| Viet Nam              | 38 e          | 233 e         | 234 e         | 182 e         | 273 e         | 243 e         | 222 e          | 613 e          | 1 658 e        |
| <b>Europe</b>         | <b>23 786</b> | <b>35 116</b> | <b>38 706</b> | <b>51 209</b> | <b>58 548</b> | <b>72 257</b> | <b>88 134</b>  | <b>83 317</b>  | <b>94 560</b>  |
| Belgium               | 2 216         | 2 613         | 2 390         | 2 870         | 3 411         | 4 794         | 6 974          | 6 926          | 6 652          |
| Denmark               | 5 165         | 4 833         | 4 650         | 5 180         | 4 630         | 6 198         | 6 603          | 7 593          | 8 753          |
| Finland               | 10            | 16            | 12            | 102           | 238           | 271           | 305            | 267            | 272            |
| France                |               |               |               |               |               |               |                |                |                |
| Germany               | 1 471         | 8 284         | 12 274        | 17 675        | 19 467        | 24 744        | 27 306         | 24 374         | 25 124         |
| Ireland               | 81 o          | 81 e          | 81 e          | 81            | 81 e          | 81            | 81             | 81 e           | 81             |
| Netherlands           | 748           | 1 130         | 2 269         | 3 700         | 3 630         | 3 573         | 5 484          | 7 952          | 8 015          |
| Norway                | 6             | 7             | 5             | 5             | 5             | 5             | 5              | 5 e            | 5 o            |
| Portugal              | 4             | 4             |               |               |               |               | 51             | 51             | 78             |
| Spain                 | 11            | 11            | 11            | 11            | 11            | 11            | 11             | 11 e           | 11 o           |
| Sweden                | 669           | 714           | 608           | 670           | 550           | 606           | 633            | 547            | 550 o          |
| UK                    | 13 405 o      | 17 423 o      | 16 406 o      | 20 916 o      | 26 525 o      | 31 975 o      | 40 681         | 35 510 o       | 45 020 u       |
| <b>European Union</b> | <b>10 375</b> | <b>17 686</b> | <b>22 295</b> | <b>30 289</b> | <b>32 018</b> | <b>40 277</b> | <b>47 448</b>  | <b>47 803</b>  | <b>49 536</b>  |
| <b>N America</b>      | <b>0</b>      | <b>0</b>      | <b>103</b>    | <b>103</b>    | <b>103</b>    | <b>103</b>    | <b>145</b>     | <b>145</b>     | <b>145</b>     |
| USA                   | 0 e           | 0 e           | 103 o         | 103 o         | 103 o         | 103 o         | 145 o          | 145 o          | 145 o          |

# Solar energy

## Énergie solaire

## Energía solar

| CAP (MW)      | 2014           | 2015           | 2016           | 2017           | 2018           | 2019           | 2020           | 2021           | 2022             | 2023             |
|---------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|------------------|------------------|
| <b>World</b>  | <b>179 639</b> | <b>228 081</b> | <b>300 146</b> | <b>395 854</b> | <b>491 988</b> | <b>595 027</b> | <b>726 229</b> | <b>870 643</b> | <b>1 070 851</b> | <b>1 418 016</b> |
| <b>Africa</b> | <b>1 630</b>   | <b>2 125</b>   | <b>3 296</b>   | <b>5 048</b>   | <b>7 944</b>   | <b>9 293</b>   | <b>10 659</b>  | <b>11 582</b>  | <b>12 646</b>    | <b>13 438</b>    |
| Algeria       | 28             | 61             | 261            | 354            | 366            | 366            | 366            | 366            | 451              | 451              |
| Angola        | 0              | 0              | 0              | 0              | 1              | 1              | 1              | 1              | 285              | 310              |
| Benin         | 0              | 1              | 2              | 2              | 3              | 4              | 5              | 6              | 33               | 33               |
| Botswana      | 2              | 2              | 3              | 3              | 4              | 6              | 6              | 6              | 6                | 6                |
| Burkina Faso  | 2              | 3              | 3              | 38             | 54             | 55             | 56             | 57             | 87               | 177              |
| Burundi       | 0              | 1              | 2              | 2              | 2              | 2              | 2              | 9              | 9                | 9                |
| Cabo Verde    | 6              | 6              | 6              | 6              | 11             | 14             | 15             | 17             | 23               | 26               |
| Cameroon      | 0              | 0              | 0              | 12             | 12             | 13             | 14             | 26             | 26               | 62               |
| Cent Afr Rep  | 0              | 0              | 0              | 0              | 0              | 0              | 0              | 0              | 0                | 25               |
| Chad          | 0              | 0              | 0              | 0              | 1              | 1              | 1              | 2              | 2                | 2                |
| Comoros       |                |                | 1              | 1              | 1              | 1              | 1              | 0              | 4                | 4                |
| Congo DR      | 1              | 1              | 5              | 6              | 8              | 10             | 14             | 18             | 22               | 22               |
| Congo Rep     | 0              | 0              | 0              | 0              | 0              | 0              | 1              | 1              | 1                | 1                |
| Cote d'Ivoire | 0              | 0              | 0              | 1              | 2              | 4              | 6              | 8              | 9                | 46               |
| Djibouti      | 0              | 0              | 0              | 0              | 0              | 0              | 0              | 0              | 0                | 0                |
| Egypt         | 35             | 36             | 59             | 180            | 764            | 1 647          | 1 643          | 1 663          | 1 724            | 1 856            |
| Eq Guinea     |                |                | 0              | 0              | 0              | 0              | 0              | 0              | 0                | 0                |
| Eritrea       | 8              | 8              | 9              | 23             | 26             | 26             | 26             | 25             | 25               | 25               |
| Eswatini      |                |                | 0              | 0              | 0              | 0              | 0              | 10             | 10               | 10               |
| Ethiopia      | 9              | 10             | 14             | 12             | 12             | 12             | 20             | 21             | 21               | 21               |
| Gabon         | 0              | 0              | 0              | 0              | 0              | 0              | 0              | 0              | 1                | 1                |
| Gambia        | 0              | 1              | 1              | 1              | 1              | 2              | 2              | 2              | 2                | 2                |
| Ghana         | 8              | 32             | 37             | 42             | 72             | 83             | 108            | 165            | 169              | 169              |
| Guinea        | 0              | 0              | 0              | 0              | 13             | 14             | 15             | 15             | 16               | 16               |
| Guinea Bissau | 0              | 0              | 1              | 1              | 2              | 2              | 2              | 2              | 2                | 2                |
| Kenya         | 16             | 30             | 35             | 45             | 105            | 126            | 146            | 216            | 318              | 358              |
| Lesotho       | 0              | 0              | 0              | 0              | 0              | 1              | 1              | 1              | 1                | 29               |
| Liberia       | 0              | 0              | 0              | 1              | 1              | 2              | 2              | 3              | 3                | 3                |
| Libya         | 5              | 5              | 5              | 5              | 5              | 5              | 5              | 6              | 6                | 8                |
| Madagascar    | 0              | 0              | 1              | 2              | 22             | 23             | 24             | 24             | 51               | 51               |
| Malawi        | 1              | 2              | 3              | 3              | 4              | 4              | 6              | 66             | 108              | 108              |
| Mali          | 4              | 6              | 7              | 10             | 10             | 11             | 62             | 93             | 97               | 97               |
| Mauritania    | 18             | 18             | 35             | 35             | 87             | 88             | 88             | 88             | 89               | 123              |
| Mauritius     | 3              | 19             | 26             | 33             | 75             | 99             | 108            | 110            | 108              | 108              |
| Mayotte       | 13             | 13             | 13             | 15             | 16             | 17             | 19             | 30             | 30               | 31               |
| Morocco       | 40             | 200            | 202            | 204            | 734            | 734            | 774            | 854            | 854              | 934              |
| Mozambique    | 3              | 3              | 3              | 3              | 3              | 43             | 45             | 46             | 88               | 103              |
| Namibia       | 4              | 8              | 23             | 62             | 91             | 144            | 145            | 145            | 170              | 170              |
| Niger         | 6              | 6              | 7              | 7              | 14             | 14             | 15             | 15             | 50               | 80               |
| Nigeria       | 4              | 11             | 15             | 20             | 25             | 37             | 53             | 73             | 102              | 112              |
| Reunion       | 167            | 187            | 186            | 188            | 190            | 199            | 208            | 225            | 234              | 239              |
| Rwanda        | 10             | 11             | 12             | 17             | 19             | 22             | 24             | 25             | 26               | 26               |
| Sao Tome Prn  |                |                | 0              | 0              | 0              | 0              | 0              | 0              | 0                | 0                |
| Senegal       | 2              | 3              | 32             | 104            | 147            | 171            | 171            | 239            | 262              | 262              |
| Seychelles    | 1              | 1              | 3              | 4              | 5              | 5              | 8              | 17             | 17               | 17               |
| Sierra Leone  | 0              | 0              | 1              | 1              | 1              | 5              | 7              | 15             | 20               | 20               |
| Somalia       | 0              | 0              | 1              | 2              | 2              | 2              | 11             | 19             | 42               | 46               |
| South Africa  | 1 164          | 1 353          | 2 176          | 3 451          | 4 805          | 4 908          | 5 994          | 6 316          | 6 326            | 6 164            |
| South Sudan   | 0              | 0              | 0              | 0              | 1              | 1              | 2              | 3              | 3                | 16               |
| Sudan         | 17             | 20             | 26             | 36             | 59             | 80             | 117            | 136            | 190              | 190              |
| Tanzania      | 11             | 13             | 12             | 13             | 17             | 16             | 17             | 19             | 20               | 20               |
| Togo          | 0              | 0              | 0              | 1              | 4              | 7              | 11             | 64             | 66               | 66               |
| Tunisia       | 17             | 28             | 38             | 47             | 64             | 80             | 95             | 95             | 197              | 506              |
| Uganda        | 20             | 22             | 24             | 44             | 67             | 78             | 88             | 90             | 95               | 95               |
| Zambia        | 0              | 1              | 2              | 2              | 5              | 95             | 96             | 97             | 98               | 133              |
| Zimbabwe      | 3              | 2              | 3              | 5              | 9              | 12             | 14             | 33             | 46               | 46               |

# Solar energy

## Énergie solaire

## Energía solar

| CAP (MW)                 | 2014          | 2015          | 2016           | 2017           | 2018           | 2019           | 2020           | 2021           | 2022           | 2023           |
|--------------------------|---------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| <b>Asia</b>              | <b>60 630</b> | <b>90 400</b> | <b>140 225</b> | <b>211 564</b> | <b>275 809</b> | <b>331 238</b> | <b>412 092</b> | <b>488 907</b> | <b>601 390</b> | <b>839 329</b> |
| Afghanistan              | 18            | 19            | 20             | 22             | 22             | 32             | 31             | 31             | 33             | 33             |
| Bangladesh               | 169           | 196           | 165            | 217            | 240            | 280            | 343            | 506            | 523            | 748            |
| Bhutan                   | 0             | 0             | 0              | 0              | 0              | 0              | 0              | 0              | 0              | 1              |
| Brunei Darussalam        | 1             | 1             | 1              | 1              | 1              | 1              | 1              | 5              | 5              | 5              |
| Cambodia                 | 9             | 12            | 18             | 32             | 42             | 137            | 330            | 392            | 477            | 482            |
| China                    | 28 399        | 43 549        | 77 819         | 130 832        | 175 262        | 204 971        | 253 864        | 306 973        | 393 032        | 609 921        |
| China HK SAR             |               |               |                | 1              | 1              | 89             | 91             | 95             | 185            | 191            |
| Chinese Taipei           | 636           | 884           | 1 245          | 1 768          | 2 738          | 4 150          | 5 817          | 7 700          | 9 724          | 12 418         |
| India                    | 3 776         | 5 697         | 9 982          | 18 257         | 27 485         | 35 250         | 39 705         | 49 950         | 63 390         | 73 109         |
| Indonesia                | 42            | 79            | 88             | 97             | 65             | 155            | 163            | 225            | 313            | 637            |
| Japan                    | 23 339        | 34 150        | 42 040         | 49 500         | 56 162         | 63 192         | 71 868         | 78 413         | 85 066         | 89 077         |
| Kazakhstan               | 5             | 57            | 57             | 59             | 209            | 542            | 912            | 1 038          | 1 146          | 1 306          |
| Korea DPR                | 11            | 23            | 32             | 36             | 50             | 65             | 79             | 102            | 116            | 129            |
| Korea Rep                | 2 438         | 3 467         | 4 338          | 5 633          | 7 701          | 10 847         | 14 756         | 17 905         | 20 525         | 23 493         |
| Kyrgyzstan               |               |               |                |                |                |                |                |                |                | 0              |
| Lao PDR                  | 2             | 2             | 2              | 8              | 34             | 34             | 45             | 59             | 59             | 59             |
| Malaysia                 | 205           | 266           | 344            | 394            | 545            | 894            | 1 483          | 1 787          | 1 933          | 1 933          |
| Maldives                 | 4             | 5             | 7              | 11             | 16             | 21             | 27             | 31             | 36             | 37             |
| Mongolia                 | 5             | 5             | 15             | 48             | 64             | 89             | 95             | 95             | 95             | 95             |
| Myanmar                  | 6             | 21            | 32             | 44             | 48             | 88             | 84             | 110            | 181            | 181            |
| Nepal                    | 12            | 13            | 14             | 55             | 56             | 55             | 66             | 90             | 110            | 115            |
| Pakistan                 | 165           | 265           | 589            | 655            | 680            | 756            | 855            | 1 078          | 1 244          | 1 244          |
| Philippines              | 28            | 172           | 784            | 908            | 919            | 983            | 1 059          | 1 379          | 1 628          | 1 729          |
| Singapore                | 26            | 46            | 97             | 116            | 162            | 272            | 332            | 487            | 634            | 901            |
| Sri Lanka                | 22            | 37            | 71             | 154            | 228            | 350            | 436            | 624            | 800            | 966            |
| Tajikistan               |               |               |                |                |                |                | 0              | 0              | 0              | 0              |
| Thailand                 | 1 304         | 1 425         | 2 451          | 2 702          | 2 967          | 2 988          | 2 984          | 3 065          | 3 185          | 3 186          |
| Timor Leste              | 1             | 1             | 1              | 1              | 1              | 1              | 0              | 0              | 0              | 0              |
| Uzbekistan               | 1             | 1             | 2              | 3              | 4              | 4              | 4              | 104            | 253            | 253            |
| Viet Nam                 | 5             | 5             | 5              | 8              | 105            | 4 994          | 16 661         | 16 661         | 16 698         | 17 077         |
| <b>C America + Carib</b> | <b>295</b>    | <b>998</b>    | <b>1 205</b>   | <b>1 566</b>   | <b>1 950</b>   | <b>2 539</b>   | <b>2 822</b>   | <b>3 542</b>   | <b>3 945</b>   | <b>4 767</b>   |
| Anguilla                 | 1             | 1             | 2              | 2              | 1              | 2              | 2              | 2              | 2              | 2              |
| Antigua Barb             | 0             | 3             | 4              | 4              | 9              | 9              | 13             | 15             | 15             | 16             |
| Aruba                    | 5             | 6             | 7              | 7              | 15             | 15             | 15             | 15             | 15             | 15             |
| Bahamas                  | 2             | 2             | 2              | 2              | 2              | 4              | 4              | 9              | 14             | 14             |
| Barbados                 | 1             | 3             | 15             | 16             | 17             | 33             | 49             | 64             | 69             | 69             |
| Belize                   | 0             | 0             | 0              | 1              | 1              | 7              | 7              | 7              | 7              | 7              |
| BES Islands              | 0             | 0             | 2              | 5              | 6              | 7              | 7              | 7              | 7              | 8              |
| Br Virgin Is             | 0             | 1             | 1              | 1              | 1              | 1              | 1              | 1              | 2              | 3              |
| Cayman Is                |               |               | 3              | 9              | 10             | 11             | 13             | 14             | 14             | 14             |
| Costa Rica               | 5             | 9             | 14             | 20             | 33             | 48             | 57             | 74             | 74             | 74             |
| Cuba                     | 7             | 18            | 31             | 70             | 124            | 151            | 213            | 246            | 267            | 280            |
| Curacao                  | 8             | 10            | 11             | 11             | 12             | 12             | 13             | 13             | 13             | 13             |
| Dominica                 | 0             | 0             | 1              | 1              | 0              | 0              | 0              | 0              | 0              | 0              |
| Dominican Rep            | 15            | 24            | 71             | 95             | 191            | 335            | 386            | 584            | 735            | 1 077          |
| El Salvador              | 0             | 11            | 12             | 110            | 167            | 410            | 479            | 543            | 571            | 586            |
| Grenada                  | 1             | 1             | 2              | 2              | 3              | 3              | 4              | 4              | 4              | 4              |
| Guadeloupe               | 70            | 70            | 70             | 70             | 72             | 83             | 88             | 90             | 93             | 93             |
| Guatemala                | 10            | 93            | 93             | 101            | 101            | 101            | 101            | 101            | 105            | 110            |
| Haiti                    | 2             | 2             | 2              | 3              | 3              | 3              | 3              | 3              | 3              | 4              |
| Honduras                 | 5             | 396           | 412            | 455            | 515            | 518            | 525            | 529            | 529            | 529            |
| Jamaica                  | 4             | 7             | 28             | 56             | 56             | 107            | 107            | 107            | 107            | 110            |
| Martinique               | 63            | 65            | 67             | 68             | 71             | 76             | 77             | 82             | 82             | 88             |
| Montserrat               |               |               |                |                | 0              | 0              | 1              | 1              | 1              | 1              |
| Nicaragua                | 1             | 1             | 1              | 14             | 14             | 16             | 16             | 16             | 17             | 18             |
| Panama                   | 2             | 43            | 89             | 127            | 199            | 225            | 235            | 498            | 529            | 646            |
| Puerto Rico              | 79            | 209           | 244            | 302            | 305            | 337            | 381            | 488            | 639            | 955            |
| St Barth                 |               |               | 0              | 0              | 0              | 0              | 0              | 0              | 0              | 0              |
| St Kitts Nevis           | 1             | 1             | 2              | 2              | 2              | 2              | 3              | 3              | 3              | 3              |
| St Lucia                 | 0             | 1             | 1              | 1              | 4              | 4              | 4              | 4              | 4              | 4              |
| St Martin                | 2             | 3             | 2              | 0              | 0              | 1              | 1              | 1              | 2              | 2              |
| St Vincent Gren          | 1             | 3             | 3              | 3              | 3              | 4              | 4              | 4              | 4              | 5              |
| Trinidad Tobago          | 4             | 4             | 4              | 4              | 4              | 4              | 4              | 4              | 4              | 4              |
| Turks Caicos             | 0             | 0             | 0              | 0              | 1              | 1              | 3              | 3              | 3              | 4              |
| US Virgin Is             | 5             | 9             | 9              | 5              | 10             | 10             | 10             | 10             | 10             | 10             |
| <b>Eurasia</b>           | <b>48</b>     | <b>316</b>    | <b>937</b>     | <b>3 678</b>   | <b>5 652</b>   | <b>7 329</b>   | <b>8 187</b>   | <b>9 690</b>   | <b>11 551</b>  | <b>14 204</b>  |
| Armenia                  |               |               | 1              | 2              | 17             | 21             | 51             | 146            | 235            | 402            |
| Azerbaijan               | 2             | 5             | 25             | 28             | 35             | 33             | 35             | 48             | 51             | 282            |
| Georgia                  |               |               | 0              | 1              | 1              | 3              | 5              | 18             | 23             | 58             |
| Russian Fed              | 5             | 61            | 76             | 225            | 535            | 1 276          | 1 428          | 1 661          | 1 816          | 2 170          |
| Türkiye                  | 41            | 250           | 834            | 3 422          | 5 064          | 5 996          | 6 668          | 7 817          | 9 426          | 11 293         |

# Solar energy

## Énergie solaire

## Energía solar

| CAP (MW)              | 2014          | 2015          | 2016           | 2017           | 2018           | 2019           | 2020           | 2021           | 2022           | 2023           |
|-----------------------|---------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| <b>Europe</b>         | <b>91 096</b> | <b>99 605</b> | <b>106 175</b> | <b>112 307</b> | <b>121 572</b> | <b>142 339</b> | <b>162 795</b> | <b>190 928</b> | <b>233 906</b> | <b>288 644</b> |
| Albania               | 1             | 1             | 1              | 1              | 14             | 21             | 23             | 100            | 240            |                |
| Andorra               | 0             | 0             | 0              | 0              | 2              | 3              | 4              | 4              | 4              |                |
| Austria               | 785           | 937           | 1 096          | 1 269          | 1 455          | 1 702          | 2 043          | 2 783          | 3 792          | 6 832          |
| Belarus               | 4             | 6             | 47             | 80             | 154            | 154            | 160            | 163            | 273            | 273            |
| Belgium               | 3 015         | 3 132         | 3 329          | 3 621          | 4 000          | 4 637          | 5 573          | 6 012          | 6 756          | 8 549          |
| Bosnia Herzg          | 7             | 8             | 14             | 16             | 18             | 22             | 35             | 57             | 102            | 132            |
| Bulgaria              | 1 029         | 1 028         | 1 030          | 1 031          | 1 033          | 1 044          | 1 100          | 1 275          | 1 737          | 2 937          |
| Croatia               | 33            | 48            | 56             | 60             | 68             | 85             | 109            | 138            | 222            | 461            |
| Cyprus                | 64            | 76            | 84             | 110            | 118            | 151            | 229            | 315            | 424            | 606            |
| Czechia               | 2 067         | 2 075         | 2 068          | 2 075          | 2 081          | 2 111          | 2 172          | 2 246          | 2 420          | 2 499          |
| Denmark               | 607           | 782           | 851            | 906            | 998            | 1 080          | 1 304          | 1 704          | 3 070          | 3 529          |
| Estonia               | 3             | 7             | 10             | 15             | 32             | 121            | 208            | 395            | 520            | 822            |
| Faroe Islands         |               |               |                |                |                | 0              | 0              | 0              | 0              | 0              |
| Finland               | 11            | 17            | 39             | 82             | 140            | 222            | 318            | 425            | 664            | 900            |
| France                | 6 034         | 7 138         | 7 702          | 8 610          | 9 629          | 10 738         | 11 926         | 14 612         | 17 350         | 20 551         |
| Germany               | 37 900        | 39 224        | 40 679         | 42 293         | 45 158         | 48 914         | 53 671         | 60 038         | 67 479         | 81 739         |
| Greece                | 2 596         | 2 604         | 2 604          | 2 606          | 2 651          | 2 834          | 3 288          | 4 277          | 5 430          | 7 030          |
| Hungary               | 89            | 172           | 235            | 344            | 728            | 1 400          | 2 131          | 2 968          | 4 235          | 5 835          |
| Iceland               | 1             | 3             | 4              | 4              | 5              | 7              | 7              | 7              | 7              | 7              |
| Ireland               | 3             | 5             | 11             | 29             | 53             | 96             | 152            | 228            | 289            | 738            |
| Italy                 | 18 600        | 18 907        | 19 289         | 19 688         | 20 114         | 20 871         | 21 656         | 22 600         | 24 561         | 29 795         |
| Kosovo*               |               | 0             | 2              | 7              | 7              | 10             | 10             | 14             | 14             | 20             |
| Latvia                |               |               | 1              | 1              | 2              | 3              | 5              | 7              | 113            | 353            |
| Lithuania             | 69            | 69            | 70             | 74             | 82             | 103            | 164            | 255            | 572            | 1 165          |
| Luxembourg            | 110           | 116           | 122            | 128            | 131            | 160            | 187            | 277            | 317            | 432            |
| Malta                 | 55            | 75            | 94             | 112            | 132            | 155            | 188            | 205            | 222            | 231            |
| Moldova Rep           | 1             | 1             | 2              | 2              | 3              | 5              | 4              | 14             | 60             | 87             |
| Montenegro            |               |               |                |                |                | 3              | 3              | 22             | 42             |                |
| Netherlands           | 1 007         | 1 526         | 2 135          | 2 911          | 4 608          | 7 228          | 11 110         | 14 823         | 19 600         | 23 904         |
| North Macedonia       | 15            | 17            | 17             | 17             | 17             | 17             | 85             | 91             | 190            | 535            |
| Norway                | 13            | 15            | 27             | 45             | 68             | 120            | 160            | 205            | 366            | 666            |
| Poland                | 27            | 108           | 187            | 287            | 562            | 1 539          | 3 955          | 7 416          | 12 170         | 15 809         |
| Portugal              | 415           | 447           | 513            | 579            | 667            | 901            | 1 100          | 1 646          | 2 646          | 3 876          |
| Romania               | 1 293         | 1 326         | 1 372          | 1 374          | 1 386          | 1 398          | 1 383          | 1 394          | 1 809          | 1 917          |
| Serbia                | 13            | 16            | 17             | 18             | 21             | 23             | 31             | 52             | 137            | 137            |
| Slovakia              | 533           | 533           | 533            | 528            | 471            | 590            | 535            | 537            | 549            | 631            |
| Slovenia              | 224           | 239           | 232            | 247            | 247            | 278            | 370            | 461            | 626            | 1 034          |
| Spain                 | 7 001         | 7 008         | 7 017          | 7 027          | 7 068          | 11 111         | 12 440         | 16 019         | 25 615         | 31 016         |
| Sweden                | 60            | 104           | 153            | 244            | 428            | 714            | 1 107          | 1 606          | 2 388          | 3 488          |
| Switzerland           | 1 061         | 1 394         | 1 664          | 1 906          | 2 173          | 2 498          | 2 973          | 3 655          | 4 340          | 5 840          |
| UK                    | 5 528         | 9 601         | 11 914         | 12 760         | 13 060         | 13 345         | 13 551         | 13 915         | 14 651         | 15 919         |
| Ukraine               | 819           | 841           | 955            | 1 200          | 2 003          | 5 936          | 7 331          | 8 062          | 8 062          | 8 062          |
| <b>European Union</b> | <b>83 982</b> | <b>88 090</b> | <b>91 901</b>  | <b>96 644</b>  | <b>104 442</b> | <b>120 615</b> | <b>138 868</b> | <b>165 145</b> | <b>206 075</b> | <b>257 190</b> |
| <b>Middle East</b>    | <b>883</b>    | <b>1 154</b>  | <b>1 621</b>   | <b>2 250</b>   | <b>3 535</b>   | <b>6 076</b>   | <b>8 107</b>   | <b>10 261</b>  | <b>13 992</b>  | <b>18 826</b>  |
| Bahrain               | 5             | 5             | 6              | 6              | 6              | 10             | 10             | 21             | 46             | 57             |
| Iran IR               | 9             | 9             | 43             | 184            | 286            | 346            | 430            | 456            | 539            | 595            |
| Iraq                  | 37            | 37            | 37             | 37             | 37             | 37             | 37             | 42             | 42             |                |
| Israel                | 656           | 796           | 906            | 1 006          | 1 346          | 2 138          | 2 652          | 3 591          | 4 411          | 4 524          |
| Jordan                | 0             | 57            | 311            | 418            | 760            | 971            | 1 541          | 1 811          | 1 966          | 1 990          |
| Kuwait                | 4             | 5             | 22             | 23             | 34             | 84             | 84             | 84             | 102            | 102            |
| Lebanon               | 5             | 11            | 24             | 37             | 55             | 76             | 90             | 190            | 875            | 1 005          |
| Oman                  | 1             | 2             | 2              | 8              | 26             | 26             | 129            | 155            | 655            | 672            |
| Palestine             | 3             | 12            | 25             | 35             | 40             | 82             | 117            | 178            | 192            | 192            |
| Qatar                 | 4             | 4             | 5              | 5              | 5              | 5              | 5              | 5              | 805            | 805            |
| Saudi Arabia          | 24            | 24            | 24             | 34             | 84             | 109            | 409            | 439            | 440            | 2 585          |
| Syrian AR             |               |               | 0              | 1              | 2              | 12             | 33             | 60             | 60             |                |
| United Arab Em        | 130           | 132           | 135            | 353            | 600            | 1 935          | 2 333          | 3 002          | 3 596          | 5 907          |
| Yemen                 | 5             | 60            | 81             | 103            | 253            | 254            | 258            | 258            | 264            | 290            |
| <b>N America</b>      | <b>20 394</b> | <b>27 409</b> | <b>39 098</b>  | <b>48 261</b>  | <b>58 476</b>  | <b>71 841</b>  | <b>87 978</b>  | <b>109 579</b> | <b>129 156</b> | <b>156 000</b> |
| Canada                | 2 108         | 2 877         | 3 058          | 3 419          | 3 719          | 4 007          | 4 379          | 5 261          | 5 439          | 5 884          |
| Greenland             |               |               |                | 0              | 0              | 0              | 1              | 1              | 1              | 1              |
| Mexico                | 174           | 295           | 606            | 1 072          | 2 770          | 6 247          | 7 158          | 8 927          | 9 356          | 10 910         |
| USA                   | 18 112        | 24 237        | 35 434         | 43 770         | 51 987         | 61 587         | 76 441         | 95 391         | 114 361        | 139 205        |

# Solar energy

## Énergie solaire

## Energía solar

| CAP (MW)         | 2014         | 2015         | 2016         | 2017         | 2018          | 2019          | 2020          | 2021          | 2022          | 2023          |
|------------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|
| <b>Oceania</b>   | <b>4 209</b> | <b>5 174</b> | <b>6 060</b> | <b>7 468</b> | <b>11 398</b> | <b>15 792</b> | <b>20 168</b> | <b>24 895</b> | <b>29 566</b> | <b>33 417</b> |
| Amer Samoa       | 2            | 2            | 4            | 4            | 5             | 5             | 5             | 5             | 5             | 5             |
| Australia        | 4 137        | 5 035        | 5 880        | 7 242        | 11 128        | 15 453        | 19 772        | 24 396        | 28 887        | 32 612        |
| Cook Is          | 2            | 3            | 3            | 3            | 5             | 6             | 6             | 6             | 6             | 6             |
| Fiji             | 2            | 4            | 6            | 8            | 8             | 8             | 9             | 9             | 9             | 11            |
| Fr Polynesia     | 26           | 30           | 32           | 35           | 38            | 41            | 45            | 46            | 52            | 53            |
| Guam             | 1            | 32           | 35           | 36           | 38            | 40            | 41            | 43            | 105           | 105           |
| Kiribati         | 1            | 2            | 3            | 3            | 3             | 3             | 3             | 3             | 3             | 3             |
| Marshall Is      | 1            | 1            | 2            | 2            | 2             | 2             | 2             | 2             | 2             | 2             |
| Micronesia       | 1            | 1            | 2            | 2            | 2             | 3             | 3             | 3             | 3             | 3             |
| Nauru            | 0            | 0            | 1            | 1            | 1             | 2             | 2             | 3             | 3             | 3             |
| New Caledon      | 3            | 7            | 10           | 27           | 39            | 75            | 96            | 146           | 180           | 185           |
| New Zealand      | 22           | 37           | 53           | 71           | 91            | 115           | 145           | 192           | 260           | 363           |
| Niue             | 0            | 0            | 0            | 0            | 0             | 1             | 1             | 1             | 1             | 1             |
| Palau            | 1            | 1            | 2            | 2            | 3             | 3             | 3             | 4             | 4             | 20            |
| Papua N Guin     | 0            | 1            | 1            | 1            | 1             | 3             | 3             | 4             | 4             | 4             |
| Samoa            | 3            | 8            | 14           | 14           | 14            | 14            | 14            | 14            | 14            | 14            |
| Solomon Is       | 1            | 1            | 2            | 3            | 3             | 2             | 2             | 2             | 4             | 4             |
| Tokelau          | 1            | 1            | 1            | 1            | 1             | 1             | 1             | 1             | 1             | 1             |
| Tonga            | 3            | 4            | 5            | 7            | 7             | 7             | 7             | 7             | 14            | 15            |
| Tuvalu           | 0            | 4            | 4            | 4            | 4             | 4             | 4             | 4             | 4             | 4             |
| Vanuatu          | 0            | 0            | 2            | 3            | 4             | 5             | 5             | 5             | 5             | 5             |
| <b>S America</b> | <b>453</b>   | <b>901</b>   | <b>1 529</b> | <b>3 712</b> | <b>5 652</b>  | <b>8 579</b>  | <b>13 422</b> | <b>21 259</b> | <b>34 698</b> | <b>49 392</b> |
| Argentina        | 16           | 16           | 16           | 16           | 198           | 447           | 769           | 1 080         | 1 116         | 1 408         |
| Bolivia          | 6            | 5            | 5            | 5            | 5             | 5             | 121           | 170           | 171           | 172           |
| Brazil           | 21           | 46           | 128          | 1 207        | 2 453         | 4 698         | 8 452         | 14 499        | 25 520        | 37 449        |
| Chile            | 203          | 546          | 1 055        | 1 841        | 2 315         | 2 716         | 3 302         | 4 624         | 6 687         | 8 898         |
| Colombia         | 1            | 1            | 2            | 11           | 13            | 23            | 83            | 181           | 480           | 716           |
| Ecuador          | 26           | 26           | 26           | 26           | 28            | 28            | 28            | 28            | 29            | 31            |
| Falklands Malv   | 0            | 0            | 0            | 0            | 0             | 0             | 0             | 0             | 0             | 0             |
| Fr Guiana        | 36           | 51           | 51           | 51           | 51            | 54            | 55            | 55            | 55            | 55            |
| Guyana           | 1            | 1            | 2            | 4            | 6             | 8             | 8             | 9             | 10            | 15            |
| Paraguay         | 0            | 0            | 0            | 0            | 0             | 0             | 0             | 0             | 1             | 1             |
| Peru             | 130          | 135          | 146          | 298          | 324           | 335           | 335           | 332           | 332           | 332           |
| Suriname         | 6            | 6            | 7            | 8            | 8             | 8             | 9             | 9             | 12            | 12            |
| Uruguay          | 4            | 64           | 89           | 243          | 248           | 254           | 258           | 266           | 280           | 297           |
| Venezuela        | 3            | 3            | 3            | 3            | 3             | 3             | 3             | 4             | 4             | 5             |

# Solar energy

## Énergie solaire

## Energía solar

| PROD (GWh)    | 2014           | 2015           | 2016           | 2017           | 2018           | 2019           | 2020           | 2021             | 2022             |
|---------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|------------------|------------------|
| <b>World</b>  | <b>192 602</b> | <b>252 269</b> | <b>324 797</b> | <b>437 515</b> | <b>560 036</b> | <b>689 902</b> | <b>835 685</b> | <b>1 030 571</b> | <b>1 294 481</b> |
| <b>Africa</b> | <b>2 020</b>   | <b>3 310</b>   | <b>5 130</b>   | <b>7 927</b>   | <b>10 232</b>  | <b>13 200</b>  | <b>17 423</b>  | <b>21 047</b>    | <b>22 463</b>    |
| Algeria       | 200            | 195            | 372            | 426            | 688            | 711            | 816            | 793              | 835              |
| Angola        | 0              | 0              | 0              | 1              | 1              | 2              | 2              | 2                | 405              |
| Benin         | 1              | 3              | 4              | 4              | 4              | 6              | 7              | 8                | 11               |
| Botswana      | 3              | 3              | 5              | 5              | 6              | 6              | 6              | 6                | 6                |
| Burkina Faso  | 3              | 5              | 5              | 15             | 85             | 91             | 90             | 93               | 93               |
| Burundi       | 1              | 1              | 2              | 3              | 3              | 3              | 3              | 2                | 2                |
| Cabo Verde    | 7              | 6              | 6              | 7              | 9              | 9              | 7              | 7                | 72               |
| Cameroon      | 0              | 0              | 0              | 16             | 16             | 17             | 19             | 36               | 36               |
| Cent Afr Rep  | 0              | 0              | 0              | 0              | 0              | 0              | 0              | 0                | 0                |
| Chad          | 0              | 0              | 0              | 0              | 1              | 1              | 2              | 3                | 3                |
| Comoros       |                |                | 1              | 2              | 2              | 2              | 2              | 1                | 0                |
| Congo DR      | 2              | 2              | 6              | 7              | 11             | 12             | 17             | 1 055            | 2 114            |
| Congo Rep     | 0              | 0              | 0              | 0              | 0              | 1              | 1              | 1                | 1                |
| Cote d'Ivoire |                |                | 0              | 1              | 1              | 3              | 6              | 8                | 10               |
| Djibouti      | 1              | 1              | 1              | 1              | 1              | 1              | 1              | 1                | 1                |
| Egypt         | 140            | 44             | 194            | 603            | 553            | 1 489          | 4 453          | 4 971            | 5 003            |
| Eq Guinea     |                |                | 0              | 0              | 0              | 0              | 0              | 0                | 0                |
| Eritrea       | 15             | 15             | 17             | 45             | 49             | 50             | 50             | 48               | 47               |
| Eswatini      |                |                | 0              | 0              | 0              | 0              | 0              | 0                | 0                |
| Ethiopia      | 16             | 18             | 21             | 22             | 20             | 20             | 32             | 34               | 34               |
| Gabon         | 0              | 0              | 0              | 0              | 0              | 0              | 0              | 1                | 1                |
| Gambia        | 1              | 1              | 2              | 2              | 2              | 3              | 3              | 3                | 3                |
| Ghana         | 7              | 14             | 20             | 270            | 42             | 190            | 68             | 74               | 79               |
| Guinea        | 0              | 0              | 0              | 1              | 20             | 22             | 23             | 23               | 25               |
| Guinea Bissau |                |                | 0              | 1              | 2              | 3              | 3              | 3                | 3                |
| Kenya         | 24             | 46             | 52             | 65             | 81             | 112            | 144            | 420              | 578              |
| Lesotho       | 1              | 1              | 1              | 1              | 1              | 1              | 1              | 1                | 1                |
| Liberia       | 0              | 0              | 1              | 1              | 2              | 2              | 3              | 4                | 5                |
| Libya         | 8              | 8              | 8              | 8              | 8              | 8              | 8              | 8                | 8                |
| Madagascar    | 0              | 1              | 2              | 3              | 36             | 38             | 40             | 40               | 84               |
| Malawi        | 2              | 2              | 5              | 6              | 6              | 6              | 10             | 10               | 12               |
| Mali          | 7              | 10             | 11             | 15             | 15             | 17             | 98             | 145              | 152              |
| Mauritania    | 30             | 26             | 59             | 61             | 148            | 149            | 145            | 145              | 119              |
| Mauritius     | 25             | 26             | 32             | 44             | 55             | 136            | 152            | 156              | 157              |
| Mayotte       | 15             | 15             | 15             | 17             | 17             | 25             | 27             | 44               | 44               |
| Morocco       | 63             | 28             | 427            | 445            | 980            | 1 609          | 1 547          | 1 848            | 1 475            |
| Mozambique    | 1              | 2              | 2              | 4              | 14             | 33             | 48             | 71               | 70               |
| Namibia       | 4              | 12             | 30             | 75             | 233            | 356            | 403            | 419              | 452              |
| Niger         | 11             | 11             | 11             | 11             | 13             | 24             | 24             | 24               | 24               |
| Nigeria       | 6              | 16             | 22             | 30             | 37             | 54             | 78             | 108              | 151              |
| Reunion       | 236            | 245            | 260            | 257            | 253            | 262            | 258            | 270              | 269              |
| Rwanda        | 7              | 16             | 19             | 21             | 25             | 31             | 34             | 36               | 36               |
| Sao Tome Prn  |                |                | 0              | 0              | 0              | 0              | 0              | 0                | 0                |
| Senegal       | 4              | 5              | 4              | 89             | 221            | 258            | 288            | 380              | 424              |
| Seychelles    | 1              | 2              | 4              | 5              | 6              | 7              | 9              | 19               | 20               |
| Sierra Leone  | 0              | 0              | 1              | 2              | 2              | 6              | 9              | 21               | 21               |
| Somalia       | 0              | 0              | 2              | 3              | 4              | 4              | 17             | 30               | 66               |
| South Africa  | 1 086          | 2 411          | 3 353          | 5 080          | 6 225          | 6 851          | 7 735          | 8 694            | 8 329            |
| South Sudan   | 0              | 0              | 0              | 0              | 1              | 1              | 3              | 4                | 4                |
| Sudan         | 13             | 13             | 18             | 20             | 20             | 22             | 28             | 28               | 126              |
| Tanzania      | 20             | 23             | 22             | 24             | 31             | 28             | 30             | 34               | 36               |
| Togo          | 0              | 0              | 0              | 1              | 9              | 12             | 15             | 73               | 103              |
| Tunisia       | 28             | 44             | 67             | 137            | 178            | 258            | 346            | 480              | 539              |
| Uganda        | 29             | 32             | 39             | 62             | 71             | 119            | 128            | 140              | 137              |
| Zambia        | 0              | 1              | 3              | 4              | 9              | 109            | 163            | 161              | 159              |
| Zimbabwe      | 4              | 4              | 5              | 6              | 12             | 17             | 21             | 56               | 76               |

# Solar energy

## Énergie solaire

## Energía solar

| PROD (GWh)               | 2014           | 2015           | 2016           | 2017           | 2018           | 2019           | 2020           | 2021           | 2022           |
|--------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| <b>Asia</b>              | <b>55 765</b>  | <b>89 446</b>  | <b>136 363</b> | <b>208 434</b> | <b>292 476</b> | <b>370 044</b> | <b>442 291</b> | <b>551 859</b> | <b>687 142</b> |
| Afghanistan              | 32             | 33             | 36             | 39             | 39             | 56             | 66             | 79             | 94             |
| Bangladesh               | 232            | 266            | 220            | 292            | 315            | 374            | 459            | 613            | 864            |
| Bhutan                   | 0              | 0              | 0              | 0              | 0              | 0              | 0              | 0              | 0              |
| Brunei Darussalam        | 2              | 1              | 1              | 2              | 2              | 1              | 1              | 1              | 1              |
| Cambodia                 | 13             | 18             | 27             | 36             | 62             | 140            | 338            | 661            | 754            |
| China                    | 23 758         | 39 987         | 67 874         | 118 267        | 178 071        | 224 542        | 261 639        | 327 551        | 428 163        |
| China HK SAR             | 4              | 4              | 4              | 6              | 6              | 16             | 52             | 120            | 179            |
| Chinese Taipei           | 529            | 850            | 1 109          | 1 668          | 2 704          | 4 016          | 6 075          | 7 970          | 10 677         |
| India                    | 3 104          | 5 984          | 10 186         | 18 135         | 31 106         | 43 933         | 55 099         | 66 238         | 83 632         |
| Indonesia                | 72             | 89             | 105            | 115            | 91             | 118            | 171            | 193            | 444            |
| Japan                    | 22 952         | 34 802         | 45 761         | 55 068         | 62 668         | 69 381         | 79 087         | 86 080         | 92 614         |
| Kazakhstan               | 1              | 46             | 88             | 93             | 141            | 563            | 1 350          | 1 641          | 1 755          |
| Korea DPR                | 14             | 29             | 42             | 47             | 64             | 84             | 102            | 132            | 149            |
| Korea Rep                | 2 557          | 3 975          | 5 123          | 7 057          | 9 208          | 12 996         | 17 967         | 23 394         | 28 919         |
| Lao PDR                  | 2              | 3              | 3              | 11             | 20             | 45             | 66             | 68             | 68             |
| Malaysia                 | 196            | 280            | 363            | 427            | 477            | 481            | 430            | 460            | 460            |
| Maldives                 | 6              | 7              | 11             | 16             | 25             | 31             | 40             | 46             | 54             |
| Mongolia                 | 8              | 8              | 8              | 27             | 59             | 117            | 117            | 165            | 186            |
| Myanmar                  | 9              | 31             | 47             | 64             | 70             | 85             | 81             | 86             | 159            |
| Nepal                    | 16             | 18             | 19             | 76             | 81             | 84             | 84             | 86             | 103            |
| Pakistan                 | 238            | 382            | 682            | 916            | 921            | 921            | 1 026          | 1 167          | 1 265          |
| Philippines              | 21             | 146            | 1 108          | 1 215          | 1 272          | 1 283          | 1 420          | 1 530          | 1 904          |
| Singapore                | 27             | 50             | 103            | 141            | 188            | 301            | 399            | 557            | 748            |
| Sri Lanka                | 31             | 37             | 45             | 152            | 224            | 341            | 464            | 640            | 844            |
| Thailand                 | 1 930          | 2 388          | 3 385          | 4 547          | 4 547          | 5 146          | 5 040          | 5 017          | 5 005          |
| Timor Leste              | 2              | 2              | 2              | 2              | 1              | 1              | 1              | 1              | 1              |
| Uzbekistan               | 2              | 2              | 5              | 6              | 7              | 0              | 0              | 49             | 436            |
| Viet Nam                 | 5              | 5              | 5              | 8              | 105            | 4 988          | 10 718         | 27 315         | 27 665         |
| <b>C America + Carib</b> | <b>436</b>     | <b>1 199</b>   | <b>1 920</b>   | <b>2 379</b>   | <b>2 927</b>   | <b>3 909</b>   | <b>4 672</b>   | <b>6 155</b>   | <b>6 278</b>   |
| Anguilla                 | 1              | 2              | 2              | 2              | 2              | 3              | 4              | 4              | 4              |
| Antigua Barb             | 1              | 5              | 5              | 6              | 10             | 14             | 17             | 22             | 23             |
| Aruba                    | 6              | 10             | 12             | 13             | 19             | 26             | 26             | 26             | 26             |
| Bahamas                  | 2              | 3              | 3              | 3              | 4              | 5              | 6              | 10             | 18             |
| Barbados                 | 10             | 14             | 14             | 24             | 26             | 39             | 64             | 88             | 108            |
| Belize                   | 1              | 0              | 0              | 1              | 1              | 9              | 10             | 7              | 8              |
| BES Islands              | 0              | 0              | 3              | 4              | 8              | 9              | 8              | 9              | 8              |
| Br Virgin Is             | 0              | 0              | 1              | 2              | 2              | 2              | 2              | 2              | 2              |
| Cayman Is                |                |                | 2              | 9              | 15             | 17             | 20             | 22             | 22             |
| Costa Rica               | 8              | 14             | 20             | 23             | 49             | 71             | 83             | 107            | 106            |
| Cuba                     | 18             | 29             | 39             | 61             | 125            | 192            | 204            | 218            | 211            |
| Curacao                  | 9              | 15             | 18             | 19             | 20             | 20             | 22             | 14             | 14             |
| Dominica                 | 0              | 0              | 0              | 0              | 0              | 0              | 0              | 0              | 0              |
| Dominican Rep            | 23             | 39             | 93             | 164            | 259            | 372            | 597            | 850            | 1 238          |
| El Salvador              | 2              | 8              | 25             | 165            | 315            | 576            | 986            | 1 691          | 1 243          |
| Grenada                  | 1              | 1              | 2              | 3              | 3              | 4              | 4              | 4              | 4              |
| Guadeloupe               | 103            | 102            | 94             | 93             | 98             | 103            | 107            | 114            | 114            |
| Guatemala                | 15             | 161            | 203            | 210            | 220            | 245            | 233            | 241            | 231            |
| Haiti                    | 3              | 3              | 3              | 4              | 5              | 5              | 5              | 5              | 4              |
| Honduras                 | 7              | 430            | 889            | 929            | 999            | 1 127          | 1 067          | 1 088          | 975            |
| Jamaica                  | 7              | 11             | 15             | 44             | 46             | 90             | 125            | 132            | 132            |
| Martinique               | 84             | 81             | 83             | 76             | 82             | 85             | 84             | 92             | 93             |
| Montserrat               |                |                |                |                |                | 0              | 2              | 2              | 2              |
| Nicaragua                | 1              | 2              | 2              | 14             | 24             | 26             | 24             | 27             | 26             |
| Panama                   | 2              | 16             | 71             | 143            | 251            | 335            | 371            | 657            | 775            |
| Puerto Rico              | 113            | 225            | 291            | 345            | 312            | 498            | 563            | 679            | 846            |
| St Barth                 |                |                | 0              | 0              | 0              | 0              | 0              | 0              | 0              |
| St Kitts Nevis           | 2              | 2              | 3              | 3              | 3              | 3              | 5              | 5              | 5              |
| St Lucia                 | 0              | 1              | 1              | 1              | 6              | 8              | 8              | 8              | 8              |
| St Martin                | 3              | 4              | 3              | 0              | 0              | 0              | 1              | 1              | 2              |
| St Vincent Gren          | 0              | 1              | 1              | 1              | 1              | 2              | 4              | 2              | 2              |
| Trinidad Tobago          | 6              | 6              | 6              | 6              | 6              | 6              | 6              | 6              | 6              |
| Turks Caicos             |                |                | 0              | 0              | 1              | 1              | 1              | 4              | 5              |
| US Virgin Is             | 7              | 13             | 13             | 7              | 14             | 14             | 14             | 17             | 18             |
| <b>Eurasia</b>           | <b>30</b>      | <b>264</b>     | <b>1 161</b>   | <b>3 149</b>   | <b>8 244</b>   | <b>10 265</b>  | <b>12 746</b>  | <b>16 073</b>  | <b>19 722</b>  |
| Armenia                  |                |                | 0              | 0              | 19             | 24             | 57             | 164            | 524            |
| Azerbaijan               | 3              | 5              | 35             | 37             | 39             | 44             | 47             | 55             | 61             |
| Georgia                  |                |                | 0              | 1              | 1              | 4              | 6              | 23             | 30             |
| Russian Fed              | 7              | 62             | 79             | 219            | 381            | 940            | 1 683          | 1 886          | 2 217          |
| Türkiye                  | 20             | 197            | 1 046          | 2 892          | 7 803          | 9 253          | 10 953         | 13 946         | 16 891         |
| <b>Europe</b>            | <b>100 006</b> | <b>110 520</b> | <b>113 840</b> | <b>122 473</b> | <b>129 519</b> | <b>142 386</b> | <b>167 470</b> | <b>186 860</b> | <b>235 613</b> |

# Solar energy

## Énergie solaire

## Energía solar

| PROD (GWh)            | 2014          | 2015           | 2016           | 2017           | 2018           | 2019           | 2020           | 2021           | 2022           |
|-----------------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Albania               | 1             | 1              | 1              | 1              | 1              | 22             | 32             | 41             | 161            |
| Andorra               | 0             | 0              | 0              | 1              | 1              | 1              | 1              | 1              | 2              |
| Austria               | 785           | 937            | 1 096          | 1 269          | 1 455          | 1 702          | 2 043          | 2 783          | 3 792          |
| Belarus               | 2             | 7              | 28             | 89             | 177            | 181            | 176            | 174            | 209            |
| Belgium               | 2 886         | 3 057          | 3 095          | 3 308          | 3 903          | 4 253          | 5 112          | 5 618          | 6 876          |
| Bosnia Herzg          | 8             | 9              | 24             | 21             | 21             | 30             | 45             | 72             | 114            |
| Bulgaria              | 1 257         | 1 382          | 1 388          | 1 403          | 1 343          | 1 417          | 1 469          | 1 467          | 2 094          |
| Croatia               | 35            | 57             | 66             | 79             | 75             | 83             | 96             | 149            | 152            |
| Cyprus                | 84            | 127            | 146            | 172            | 199            | 218            | 296            | 468            | 602            |
| Czechia               | 2 123         | 2 264          | 2 131          | 2 199          | 2 365          | 2 316          | 2 294          | 2 250          | 2 626          |
| Denmark               | 596           | 604            | 744            | 751            | 953            | 963            | 1 181          | 1 309          | 2 203          |
| Estonia               | 3             | 6              | 10             | 14             | 31             | 74             | 245            | 354            | 596            |
| Faroe Islands         |               |                |                |                |                | 0              | 0              | 0              | 0              |
| Finland               | 8             | 11             | 22             | 49             | 90             | 147            | 218            | 298            | 392            |
| France                | 6 392         | 7 754          | 8 660          | 9 587          | 10 808         | 12 165         | 13 189         | 15 357         | 19 985         |
| Germany               | 36 056        | 38 726         | 38 098         | 39 401         | 43 459         | 44 383         | 49 496         | 50 472         | 60 304         |
| Greece                | 3 792         | 3 900          | 3 930          | 3 991          | 3 791          | 4 429          | 4 447          | 5 251          | 7 140          |
| Hungary               | 67            | 141            | 244            | 349            | 629            | 1 497          | 2 459          | 3 796          | 4 732          |
| Iceland               | 1             | 2              | 3              | 3              | 4              | 5              | 5              | 5              | 5              |
| Ireland               | 1             | 2              | 5              | 10             | 18             | 33             | 53             | 79             | 148            |
| Italy                 | 22 319        | 22 955         | 22 117         | 24 390         | 22 666         | 23 701         | 24 954         | 25 051         | 28 134         |
| Kosovo*               |               | 0              | 1              | 2              | 11             | 10             | 16             | 14             |                |
| Latvia                | 0             | 0              | 0              | 0              | 1              | 3              | 5              | 7              | 41             |
| Lithuania             | 73            | 73             | 66             | 68             | 87             | 91             | 129            | 191            | 342            |
| Luxembourg            | 95            | 104            | 100            | 108            | 119            | 130            | 161            | 180            | 276            |
| Malta                 | 68            | 95             | 128            | 162            | 190            | 195            | 237            | 256            | 290            |
| Moldova Rep           | 1             | 2              | 2              | 2              | 1              | 1              | 3              | 8              | 30             |
| Montenegro            |               |                |                |                |                | 2              | 3              | 3              | 3              |
| Netherlands           | 725           | 1 109          | 1 602          | 2 204          | 3 708          | 5 399          | 8 568          | 11 304         | 17 079         |
| North Macedonia       | 14            | 23             | 24             | 24             | 23             | 23             | 24             | 51             | 92             |
| Norway                | 12            | 13             | 24             | 40             | 61             | 107            | 82             | 109            | 173            |
| Poland                | 7             | 57             | 124            | 165            | 300            | 711            | 1 958          | 3 934          | 8 310          |
| Portugal              | 627           | 796            | 871            | 992            | 1 006          | 1 342          | 1 716          | 2 237          | 3 519          |
| Romania               | 1 616         | 1 982          | 1 820          | 1 856          | 1 771          | 1 778          | 1 733          | 1 703          | 1 988          |
| Serbia                | 15            | 19             | 19             | 23             | 24             | 28             | 35             | 59             | 160            |
| Slovakia              | 597           | 506            | 533            | 506            | 585            | 589            | 663            | 671            | 650            |
| Slovenia              | 257           | 274            | 267            | 284            | 255            | 303            | 368            | 453            | 646            |
| Spain                 | 13 672        | 13 859         | 13 643         | 14 397         | 12 744         | 15 103         | 20 667         | 27 098         | 35 764         |
| Sweden                | 47            | 97             | 143            | 230            | 407            | 679            | 1 051          | 1 526          | 1 998          |
| Switzerland           | 842           | 1 119          | 1 333          | 1 683          | 1 945          | 2 178          | 2 599          | 2 842          | 3 858          |
| UK                    | 4 054         | 7 533          | 10 395         | 11 457         | 12 668         | 12 418         | 12 504         | 12 075         | 13 283         |
| Ukraine               | 868           | 917            | 940            | 1 183          | 1 632          | 3 675          | 7 141          | 7 141          | 6 832          |
| <b>European Union</b> | <b>94 680</b> | <b>101 374</b> | <b>101 554</b> | <b>108 440</b> | <b>113 460</b> | <b>124 232</b> | <b>145 341</b> | <b>164 840</b> | <b>211 247</b> |
| <b>Middle East</b>    | <b>1 326</b>  | <b>1 844</b>   | <b>2 801</b>   | <b>3 884</b>   | <b>6 019</b>   | <b>10 881</b>  | <b>14 954</b>  | <b>18 963</b>  | <b>22 936</b>  |
| Bahrain               | 9             | 9              | 11             | 11             | 11             | 18             | 18             | 39             | 83             |
| Iran IR               | 1             | 1              | 5              | 86             | 222            | 510            | 584            | 620            | 620            |
| Iraq                  | 57            | 57             | 57             | 57             | 377            | 377            | 377            | 377            |                |
| Israel                | 876           | 1 216          | 1 636          | 1 643          | 1 828          | 3 115          | 4 163          | 5 350          | 6 083          |
| Jordan                | 0             | 51             | 428            | 895            | 1 416          | 2 087          | 2 853          | 3 508          | 3 874          |
| Kuwait                | 3             | 5              | 49             | 51             | 53             | 59             | 56             | 143            | 179            |
| Lebanon               | 7             | 17             | 36             | 56             | 84             | 112            | 120            | 306            | 306            |
| Oman                  | 1             | 4              | 4              | 16             | 49             | 51             | 56             | 684            | 1 555          |
| Palestine             | 3             | 9              | 43             | 45             | 60             | 123            | 178            | 224            | 234            |
| Qatar                 | 7             | 7              | 8              | 8              | 8              | 8              | 8              | 8              | 8              |
| Saudi Arabia          | 46            | 46             | 46             | 65             | 214            | 261            | 829            | 886            | 1 251          |
| Syrian AR             |               |                |                | 0              | 2              | 4              | 20             | 58             | 102            |
| United Arab Em        | 306           | 304            | 322            | 750            | 1 204          | 3 663          | 5 193          | 6 261          | 7 753          |
| Yemen                 | 11            | 117            | 156            | 200            | 491            | 492            | 499            | 499            | 511            |
| <b>N America</b>      | <b>28 064</b> | <b>38 715</b>  | <b>53 803</b>  | <b>75 372</b>  | <b>90 040</b>  | <b>108 291</b> | <b>132 521</b> | <b>169 462</b> | <b>213 366</b> |
| Canada                | 2 079         | 2 841          | 3 005          | 3 308          | 3 491          | 3 752          | 4 072          | 5 113          | 5 737          |
| Greenland             |               |                |                | 0              | 0              | 0              | 1              | 1              | 1              |
| Mexico                | 221           | 239            | 464            | 1 084          | 1 364          | 7 061          | 9 119          | 13 026         | 20 557         |
| USA                   | 25 764        | 35 635         | 50 334         | 70 980         | 85 184         | 97 478         | 119 329        | 151 323        | 187 071        |
| <b>Oceania</b>        | <b>4 086</b>  | <b>5 168</b>   | <b>6 438</b>   | <b>8 351</b>   | <b>10 276</b>  | <b>15 303</b>  | <b>21 560</b>  | <b>28 338</b>  | <b>35 480</b>  |

# Solar energy

## Énergie solaire

## Energía solar

| PROD (GWh)       | 2014       | 2015         | 2016         | 2017         | 2018          | 2019          | 2020          | 2021          | 2022          |
|------------------|------------|--------------|--------------|--------------|---------------|---------------|---------------|---------------|---------------|
| Amer Samoa       | 2          | 2            | 6            | 8            | 8             | 7             | 7             | 6             | 4             |
| Australia        | 4 010      | 5 023        | 6 209        | 8 071        | 9 930         | 14 848        | 21 034        | 27 717        | 34 687        |
| Cook Is          | 1          | 3            | 5            | 6            | 10            | 10            | 9             | 7             | 7             |
| Fiji             | 3          | 5            | 8            | 10           | 11            | 11            | 12            | 12            | 13            |
| Fr Polynesia     | 27         | 32           | 33           | 36           | 37            | 40            | 42            | 47            | 50            |
| Guam             | 3          | 31           | 66           | 63           | 74            | 77            | 80            | 83            | 141           |
| Kiribati         | 1          | 4            | 4            | 5            | 5             | 6             | 6             | 6             | 6             |
| Marshall Is      | 1          | 1            | 1            | 2            | 2             | 2             | 2             | 2             | 2             |
| Micronesia       | 2          | 2            | 2            | 2            | 1             | 2             | 2             | 2             | 2             |
| Nauru            | 0          | 0            | 0            | 1            | 1             | 2             | 3             | 5             | 5             |
| New Caledon      | 5          | 7            | 11           | 28           | 47            | 116           | 150           | 188           | 226           |
| New Zealand      | 19         | 37           | 57           | 77           | 101           | 128           | 161           | 208           | 281           |
| Niue             | 0          | 0            | 0            | 0            | 0             | 0             | 0             | 0             | 0             |
| Palau            | 2          | 2            | 3            | 3            | 3             | 4             | 4             | 6             | 6             |
| Papua N Guin     | 0          | 1            | 2            | 2            | 2             | 4             | 5             | 5             | 6             |
| Samoa            | 2          | 8            | 16           | 21           | 22            | 24            | 23            | 23            | 22            |
| Solomon Is       | 1          | 2            | 2            | 3            | 3             | 3             | 3             | 3             | 6             |
| Tokelau          | 1          | 2            | 2            | 2            | 2             | 2             | 2             | 2             | 2             |
| Tonga            | 4          | 5            | 5            | 6            | 7             | 8             | 8             | 7             | 7             |
| Tuvalu           | 0          | 1            | 2            | 2            | 2             | 2             | 2             | 2             | 2             |
| Vanuatu          | 0          | 1            | 3            | 4            | 6             | 8             | 8             | 7             | 7             |
| <b>S America</b> | <b>868</b> | <b>1 803</b> | <b>3 340</b> | <b>5 547</b> | <b>10 304</b> | <b>15 625</b> | <b>22 048</b> | <b>31 815</b> | <b>51 482</b> |
| Argentina        | 16         | 15           | 14           | 17           | 108           | 801           | 1 346         | 2 204         | 2 942         |
| Bolivia          | 4          | 5            | 6            | 7            | 127           | 188           | 250           | 351           | 352           |
| Brazil           | 17         | 63           | 92           | 841          | 3 473         | 6 666         | 10 760        | 16 764        | 30 138        |
| Chile            | 480        | 1 263        | 2 643        | 3 927        | 5 242         | 6 465         | 8 057         | 10 664        | 15 912        |
| Colombia         | 9          | 9            | 9            | 14           | 21            | 143           | 208           | 356           | 635           |
| Ecuador          | 16         | 36           | 39           | 37           | 38            | 38            | 38            | 37            | 39            |
| Falklands Malv   | 0          | 0            | 0            | 0            | 0             | 0             | 0             | 0             | 0             |
| Fr Guiana        | 52         | 54           | 52           | 52           | 52            | 51            | 56            | 57            | 48            |
| Guyana           | 2          | 2            | 3            | 4            | 7             | 10            | 12            | 13            | 14            |
| Paraguay         | 0          | 0            | 0            | 0            | 0             | 0             | 0             | 1             | 1             |
| Peru             | 247        | 286          | 306          | 361          | 797           | 823           | 839           | 861           | 880           |
| Suriname         | 9          | 9            | 9            | 10           | 12            | 12            | 12            | 13            | 13            |
| Uruguay          | 6          | 52           | 158          | 266          | 418           | 424           | 465           | 489           | 503           |
| Venezuela        | 10         | 10           | 10           | 10           | 9             | 5             | 6             | 6             | 6             |

# Solar photovoltaic

## Solaire photovoltaïque

## Solar fotovoltaica

| CAP (MW)      | 2014    | 2015    | 2016    | 2017    | 2018    | 2019    | 2020    | 2021    | 2022      | 2023      |
|---------------|---------|---------|---------|---------|---------|---------|---------|---------|-----------|-----------|
| World         | 175 039 | 223 230 | 295 174 | 390 782 | 486 176 | 588 649 | 719 813 | 864 266 | 1 064 275 | 1 411 139 |
| Africa        | 1 465   | 1 800   | 2 871   | 4 523   | 6 959   | 8 208   | 9 574   | 10 497  | 11 561    | 12 353    |
| Algeria       | 3       | 36 e    | 236 e   | 329 e   | 341 e   | 341 e   | 341 u   | 426 u   | 426 e     |           |
| Angola        | 0 e     | 0 e     | 0 e     | 0 e     | 1 e     | 1 e     | 1 e     | 285 e   | 310 e     |           |
| Benin         | 0 e     | 1 e     | 2 e     | 2 e     | 3 e     | 4 e     | 5 e     | 6 e     | 33 e      |           |
| Botswana      | 2 e     | 2 e     | 3 e     | 3 e     | 4 e     | 6 e     | 6 e     | 6 e     | 6 e       |           |
| Burkina Faso  | 2 e     | 3 e     | 3 e     | 38 e    | 54 e    | 55 e    | 56 e    | 57 e    | 87 e      | 177 e     |
| Burundi       | 0 e     | 1 e     | 2 e     | 2 e     | 2 e     | 2 e     | 2 e     | 9 e     | 9 e       | 9 e       |
| Cabo Verde    | 6 o     | 6 o     | 6 o     | 6 o     | 11 o    | 14 o    | 15 o    | 17 o    | 23 o      | 26 o      |
| Cameroon      | 0 e     | 0 e     | 0 e     | 12 e    | 12 e    | 13 e    | 14 e    | 26 e    | 26 e      | 62 e      |
| Cent Afr Rep  | 0 e     | 0 e     | 0 e     | 0 e     | 0 e     | 0 e     | 0 e     | 0 e     | 0 e       | 25 e      |
| Chad          | 0 e     | 0 e     | 0 e     | 0 e     | 1 e     | 1 e     | 1 e     | 2 e     | 2 e       | 2 e       |
| Comoros       |         |         | 1 e     | 1 e     | 1 e     | 1 e     | 1 e     | 0 e     | 4 e       | 4 e       |
| Congo DR      | 1 e     | 1 e     | 5 e     | 6 e     | 8 e     | 10 e    | 14 e    | 18 e    | 22 e      | 22 e      |
| Congo Rep     | 0 e     | 0 e     | 0 e     | 0 e     | 0 e     | 0 e     | 1 e     | 1 e     | 1 e       | 1 e       |
| Cote d'Ivoire | 0 e     | 0 e     | 0 e     | 1 e     | 2 e     | 4 e     | 6 e     | 8 e     | 9 e       | 46 e      |
| Djibouti      | 0 e     | 0 e     | 0 u     | 0 u     | 0 u     | 0 e     | 0 e     | 0 e     | 0 e       | 0 e       |
| Egypt         | 15      | 16 o    | 39 u    | 160 o   | 744 o   | 1 627 o | 1 623 o | 1 643 o | 1 704 u   | 1 836 e   |
| Eq Guinea     |         |         | 0 e     | 0 e     | 0 e     | 0 e     | 0 e     | 0 e     | 0 e       | 0 e       |
| Eritrea       | 8 e     | 8 e     | 9 e     | 23 e    | 26 e    | 26 e    | 26 e    | 25 e    | 25 e      |           |
| Eswatini      | 0       | 0 e     | 0 e     | 0 e     | 0 e     | 0 e     | 0 e     | 10 e    | 10 e      | 10 e      |
| Ethiopia      | 9       | 10      | 14      | 12      | 12      | 12      | 20      | 21      | 21 e      | 21 e      |
| Gabon         | 0 e     | 0 e     | 0 e     | 0 e     | 0 e     | 0 e     | 0 e     | 0 e     | 1 e       | 1 e       |
| Gambia        | 0 e     | 1 e     | 1 e     | 1 e     | 1 e     | 2 e     | 2 e     | 2 e     | 2 e       | 2 e       |
| Ghana         | 8 e     | 32 e    | 37 e    | 42 e    | 72 e    | 83 e    | 108 e   | 165 e   | 169 e     | 169 e     |
| Guinea        | 0 e     | 0 e     | 0 e     | 0 e     | 13 e    | 14 e    | 15 e    | 15 e    | 16 e      | 16 e      |
| Guinea Bissau | 0 e     | 0 e     | 1 e     | 1 e     | 2 e     | 2 e     | 2 e     | 2 e     | 2 e       | 2 e       |
| Kenya         | 16 e    | 30 e    | 35 e    | 45 e    | 105 e   | 126 e   | 146 e   | 216 e   | 318 e     | 358 e     |
| Lesotho       | 0 e     | 0 e     | 0 e     | 0 e     | 1 e     | 1 e     | 1 e     | 1 e     | 1 e       | 29 e      |
| Liberia       | 0 e     | 0 e     | 0 e     | 1 e     | 1 e     | 2 e     | 2 e     | 3 e     | 3 e       | 3 e       |
| Libya         | 5 u     | 5 u     | 5 u     | 5 u     | 5 e     | 5 e     | 5 e     | 6 u     | 6 e       | 8 e       |
| Madagascar    | 0 e     | 0 e     | 1 e     | 2 e     | 22 e    | 23 e    | 24 e    | 24 e    | 51 e      | 51 e      |
| Malawi        | 1 e     | 2 e     | 3 e     | 3 e     | 4 e     | 4 e     | 6 e     | 66 e    | 108 e     | 108 e     |
| Mali          | 4 e     | 6 e     | 7 e     | 10 e    | 10 e    | 11 e    | 62 e    | 93 e    | 97 e      | 97 e      |
| Mauritania    | 18 o    | 18 o    | 35 o    | 35 o    | 87 u    | 88 u    | 88 e    | 88 e    | 89 e      | 123 u     |
| Mauritius     | 3 e     | 19 e    | 26 e    | 33 e    | 75 e    | 99 e    | 108 e   | 110 e   | 108 e     | 108 e     |
| Mayotte       | 13      | 13      | 13 o    | 15 o    | 16      | 17      | 19      | 30      | 30        | 31        |
| Morocco       | 20      | 20      | 22      | 24 o    | 194 o   | 194 o   | 234     | 314 e   | 314 e     | 394 e     |
| Mozambique    | 3 o     | 3 o     | 3 o     | 3 o     | 3 o     | 43 o    | 45 o    | 46 o    | 88 o      | 103 o     |
| Namibia       | 4 e     | 8 e     | 23 e    | 62 e    | 91 e    | 144 e   | 145 e   | 145 e   | 170 e     | 170 e     |
| Niger         | 6 e     | 6 e     | 7 e     | 7 e     | 14 e    | 14 e    | 15 e    | 15 e    | 50 e      | 80 e      |
| Nigeria       | 4 e     | 11 e    | 15 e    | 20 e    | 25 e    | 37 e    | 53 e    | 73 e    | 102 e     | 112 e     |
| Reunion       | 167 e   | 187 e   | 186 e   | 188 e   | 190 e   | 199 e   | 208 e   | 225 e   | 234 e     | 239 e     |
| Rwanda        | 10 e    | 11 e    | 12 e    | 17 e    | 19 e    | 22 e    | 24 e    | 25 e    | 26 e      | 26 e      |
| Sao Tome Prn  |         |         | 0 e     | 0 e     | 0 e     | 0 e     | 0 e     | 0 e     | 0 e       | 0 e       |
| Senegal       | 2 e     | 3 e     | 32 e    | 104 e   | 147 e   | 171 e   | 171 e   | 239 e   | 262 e     | 262 e     |
| Seychelles    | 1 o     | 1 o     | 3 e     | 4 e     | 5 e     | 5 e     | 8 e     | 17 e    | 17 e      | 17 e      |
| Sierra Leone  | 0 e     | 0 e     | 1 e     | 1 e     | 1 e     | 5 e     | 7 e     | 15 e    | 20 e      | 20 e      |
| Somalia       | 0 e     | 0 e     | 1 e     | 2 e     | 2 e     | 2 e     | 11 e    | 19 e    | 42 e      | 46 e      |
| South Africa  | 1 064 e | 1 253 e | 1 976 e | 3 151 e | 4 405 e | 4 408 e | 5 494 e | 5 816 e | 5 826 e   | 5 664 e   |
| South Sudan   | 0 e     | 0 e     | 0 e     | 0 e     | 1 e     | 1 e     | 2 e     | 3 e     | 3 e       | 16 e      |
| Sudan         | 17 u    | 20 u    | 26 u    | 36 u    | 59 u    | 80 u    | 117 u   | 136 u   | 190 e     | 190 e     |
| Tanzania      | 11 e    | 13 e    | 12 e    | 13 e    | 17 e    | 16 e    | 17 e    | 19 e    | 20 e      | 20 e      |
| Togo          | 0 e     | 0 e     | 0 e     | 1 e     | 4 e     | 7 e     | 11 e    | 64 e    | 66 e      | 66 e      |
| Tunisia       | 17 e    | 28 e    | 38 e    | 47 e    | 64 e    | 80 u    | 95 e    | 95 e    | 197 e     | 506 e     |
| Uganda        | 20 e    | 22 e    | 24 e    | 44 e    | 67 e    | 78 e    | 88 e    | 90 e    | 95 e      | 95 e      |
| Zambia        | 0 e     | 1 e     | 2 e     | 2 e     | 5 e     | 95 e    | 96 e    | 97 e    | 98 e      | 133 e     |
| Zimbabwe      | 3 e     | 2 e     | 3 e     | 5 e     | 9 e     | 12 e    | 14 e    | 33 e    | 46 e      | 46 e      |

# Solar photovoltaic Solaire photovoltaïque Solar fotovoltaica

| CAP (MW)                 | 2014          | 2015          | 2016           | 2017           | 2018           | 2019           | 2020           | 2021           | 2022           | 2023           |
|--------------------------|---------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| <b>Asia</b>              | <b>60 285</b> | <b>90 055</b> | <b>139 860</b> | <b>211 199</b> | <b>275 229</b> | <b>330 494</b> | <b>411 295</b> | <b>487 990</b> | <b>600 473</b> | <b>838 411</b> |
| Afghanistan              | 18 e          | 19 e          | 20 e           | 22 e           | 22 e           | 32 e           | 31 e           | 31 e           | 33 e           | 33 e           |
| Bangladesh               | 169 e         | 196 e         | 165 e          | 217 e          | 240 e          | 280 e          | 343 e          | 506 e          | 523 e          | 748 e          |
| Bhutan                   | 0 e           | 0 e           | 0 e            | 0 e            | 0 e            | 0 e            | 0 e            | 0 e            | 0 e            | 1 u            |
| Brunei Darussalam        | 1 u           | 1 u           | 1 u            | 1 u            | 1 u            | 1 u            | 1 u            | 5 u            | 5 u            | 5 e            |
| Cambodia                 | 9 e           | 12 e          | 18 e           | 32 e           | 42 e           | 137 e          | 330 e          | 392 e          | 477 e          | 482 e          |
| China                    | 28 388        | 43 538        | 77 788         | 130 801        | 175 016        | 204 575 e      | 253 414 o      | 306 403 e      | 392 462 e      | 609 351 e      |
| China HK SAR             |               |               |                | 1              | 1              | 89             | 91             | 95             | 185            | 191 e          |
| Chinese Taipei           | 636 o         | 884 o         | 1 245 o        | 1 768 o        | 2 738 o        | 4 150 o        | 5 817 o        | 7 700 o        | 9 724 o        | 12 418 o       |
| India                    | 3 448 e       | 5 368 e       | 9 654 e        | 17 928 e       | 27 156 e       | 34 908 e       | 39 363 e       | 49 607 e       | 63 048 e       | 72 767 e       |
| Indonesia                | 42 e          | 79 e          | 88 e           | 97 e           | 65 o           | 155 o          | 163 o          | 225 o          | 313 o          | 637 o          |
| Japan                    | 23 339        | 34 150        | 42 040         | 49 500         | 56 162         | 63 192         | 71 868         | 78 413         | 85 066         | 89 077 o       |
| Kazakhstan               | 5 e           | 57 e          | 57 e           | 59 e           | 209 e          | 542 e          | 912 e          | 1 038 e        | 1 146 e        | 1 306 o        |
| Korea DPR                | 11 u          | 23 u          | 32 u           | 36 u           | 50 e           | 65 e           | 79 e           | 102 e          | 116 e          | 129 e          |
| Korea Rep                | 2 438         | 3 467         | 4 338          | 5 633          | 7 701          | 10 847         | 14 756         | 17 905         | 20 525         | 23 493 o       |
| Kyrgyzstan               |               |               |                |                |                |                |                |                |                | 0              |
| Lao PDR                  | 2 e           | 2 e           | 2 e            | 8 e            | 34 e           | 34 e           | 45 e           | 59 e           | 59 e           | 59 e           |
| Malaysia                 | 205 e         | 266 e         | 344 e          | 394 e          | 545 e          | 894 e          | 1 483 e        | 1 787 e        | 1 933 e        | 1 933 e        |
| Maldives                 | 4 o           | 5 o           | 7 o            | 11 o           | 16 o           | 21 u           | 27 u           | 31 u           | 36 o           | 37 e           |
| Mongolia                 | 5 e           | 5 e           | 15 e           | 48 e           | 64 e           | 89 e           | 95             | 95             | 95             | 95 e           |
| Myanmar                  | 6 o           | 21 o          | 32 o           | 44 o           | 48 o           | 88 u           | 84 e           | 110 e          | 181 e          | 181 e          |
| Nepal                    | 12 e          | 13 e          | 14 e           | 55 e           | 56 e           | 55 e           | 66 e           | 90 e           | 110 e          | 115 e          |
| Pakistan                 | 165 e         | 265 e         | 589 e          | 655 e          | 680 e          | 756 e          | 855 e          | 1 078 e        | 1 244 e        | 1 244 e        |
| Philippines              | 28 e          | 172 e         | 784 e          | 908 e          | 919 e          | 983 e          | 1 059 e        | 1 379 e        | 1 628 e        | 1 729 e        |
| Singapore                | 26 o          | 46 o          | 97 o           | 116 o          | 162 o          | 272 o          | 332 o          | 487 o          | 634 o          | 901 o          |
| Sri Lanka                | 22 e          | 37 e          | 71 e           | 154 e          | 228 e          | 350 e          | 436 e          | 624 e          | 800 e          | 966 e          |
| Tajikistan               |               |               |                |                |                |                | 0              | 0              | 0              | 0              |
| Thailand                 | 1 299         | 1 420         | 2 446          | 2 697          | 2 962 o        | 2 983 o        | 2 979 o        | 3 060 o        | 3 180 o        | 3 181 o        |
| Timor Leste              | 1 e           | 1 e           | 1 e            | 1 e            | 1 e            | 1 e            | 0 e            | 0 e            | 0 e            | 0 e            |
| Uzbekistan               | 1             | 1             | 2              | 3              | 4              | 4 e            | 4 e            | 104 e          | 253            | 253 e          |
| Viet Nam                 | 5 e           | 5 e           | 5 e            | 8 e            | 105 e          | 4 994 e        | 16 661 e       | 16 698 e       | 17 077 e       |                |
| <b>C America + Carib</b> | <b>295</b>    | <b>998</b>    | <b>1 205</b>   | <b>1 566</b>   | <b>1 950</b>   | <b>2 539</b>   | <b>2 822</b>   | <b>3 542</b>   | <b>3 945</b>   | <b>4 767</b>   |
| Anguilla                 | 1 u           | 1 e           | 2 o            | 2 e            | 1 u            | 2 e            | 2 e            | 2 e            | 2 e            | 2 e            |
| Antigua Barb             | 0             | 3             | 4 e            | 4 e            | 9 e            | 9 e            | 13 e           | 15 e           | 15 e           | 16 e           |
| Aruba                    | 5 e           | 6             | 7 u            | 7 u            | 15 e           |
| Bahamas                  | 2 u           | 2 e           | 2 u            | 2 e            | 2 u            | 4 u            | 4 e            | 9 u            | 14 e           | 14 e           |
| Barbados                 | 1 u           | 3 u           | 15 u           | 16 u           | 17 u           | 33 u           | 49 u           | 64 u           | 69             | 69 e           |
| Belize                   | 0 u           | 0 u           | 0 u            | 1 u            | 1 u            | 7 u            | 7 e            | 7 e            | 7 u            | 7 e            |
| BES Islands              | 0             | 2 o           | 5 o            | 6 o            | 7 o            | 7 o            | 7 o            | 7 o            | 7 o            | 8 u            |
| Br Virgin Is             | 0 u           | 1 u           | 1 o            | 1 o            | 1 o            | 1 o            | 1 e            | 2 e            | 3 e            |                |
| Cayman Is                |               |               | 3 u            | 9 u            | 10 u           | 11 u           | 13 o           | 14             | 14 e           | 14 u           |
| Costa Rica               | 5 e           | 9 e           | 14 e           | 20 e           | 33 e           | 48 e           | 57 e           | 74 e           | 74 e           | 74 e           |
| Cuba                     | 7 o           | 18 o          | 31 o           | 70 u           | 124 u          | 151 u          | 213 u          | 246 o          | 267 e          | 280 e          |
| Curacao                  | 8 o           | 10 o          | 11 o           | 11 o           | 12 o           | 12 o           | 13 o           | 13 e           | 13 e           | 13 e           |
| Dominica                 | 0             | 0             | 1              | 1              | 0 e            | 0 e            | 0 e            | 0 e            | 0 e            | 0 e            |
| Dominican Rep            | 15 o          | 24 o          | 71 o           | 95 o           | 191            | 335            | 386 o          | 584            | 735            | 1 077          |
| El Salvador              | 0 o           | 11 o          | 12 o           | 110 o          | 167 o          | 410 o          | 479 o          | 543 o          | 571 o          | 586 e          |
| Grenada                  | 1 o           | 1 o           | 2              | 2              | 3 o            | 3 o            | 4              | 4 e            | 4 e            | 4 u            |
| Guadeloupe               | 70            | 70            | 70             | 70             | 72             | 83             | 88             | 90             | 93             | 93             |
| Guatemala                | 10 e          | 93 e          | 93 e           | 101 e          | 101 e          | 101 e          | 101 e          | 105 e          | 110 o          |                |
| Haiti                    | 2 e           | 2 e           | 2 e            | 3 u            | 3 u            | 3 e            | 3 e            | 3 e            | 4 e            |                |
| Honduras                 | 5 e           | 396 e         | 412 o          | 455 o          | 515 o          | 518 o          | 525 o          | 529 o          | 529 o          | 529 o          |
| Jamaica                  | 4 e           | 7 e           | 28 e           | 56 e           | 56 e           | 107 e          | 107 e          | 107 e          | 107 e          | 110 e          |
| Martinique               | 63 o          | 65            | 67             | 68             | 71             | 76             | 77 o           | 82 o           | 82 o           | 88 o           |
| Montserrat               |               |               |                |                | 0 u            | 0 e            | 1              | 1 e            | 1 e            | 1 u            |
| Nicaragua                | 1             | 1             | 1              | 14 o           | 14 o           | 16 o           | 16 o           | 16 e           | 17 e           | 18 e           |
| Panama                   | 2             | 43 o          | 89 o           | 127 o          | 199 o          | 225 u          | 235 e          | 498 o          | 529 e          | 646 o          |
| Puerto Rico              | 79 o          | 209 o         | 244 o          | 302 e          | 305 e          | 337 e          | 381 e          | 488 e          | 639 e          | 955 o          |
| St Barth                 |               |               | 0 o            | 0 o            | 0 o            | 0 e            | 0              | 0 e            | 0 o            | 0 e            |
| St Kitts Nevis           | 1 e           | 1 e           | 2 e            | 2 e            | 2 e            | 2 e            | 3 e            | 3 e            | 3 e            | 3 e            |
| St Lucia                 | 0             | 1             | 1 u            | 1 e            | 4 u            | 4 u            | 4 u            | 4 e            | 4 e            | 4 u            |
| St Martin                | 2             | 3             | 2 o            | 0 o            | 0 e            | 1 o            | 1              | 1              | 2 o            | 2 o            |
| St Vincent Gren          | 1 u           | 3 u           | 3 u            | 3 u            | 3              | 4              | 4              | 4              | 4              | 5              |
| Trinidad Tobago          | 4             | 4             | 4              | 4              | 4              | 4              | 4              | 4 u            | 4 u            | 4 e            |
| Turks Caicos             | 0 o           | 0 e           | 0 u            | 0 u            | 1 u            | 1 e            | 3 u            | 3 u            | 3 u            | 4 u            |
| US Virgin Is             | 5 e           | 9 e           | 9 e            | 5 e            | 10             | 10             | 10             | 10             | 10 e           | 10             |
| <b>Eurasia</b>           | <b>47</b>     | <b>315</b>    | <b>936</b>     | <b>3 677</b>   | <b>5 651</b>   | <b>7 328</b>   | <b>8 186</b>   | <b>9 689</b>   | <b>11 550</b>  | <b>14 203</b>  |
| Armenia                  |               |               | 1              | 2              | 17 o           | 21 e           | 51 e           | 146 e          | 235 e          | 402 o          |
| Azerbaijan               | 2 u           | 5             | 25             | 28 u           | 35 o           | 33             | 35             | 48             | 51 o           | 282 o          |
| Georgia                  |               |               | 0 u            | 1 u            | 1 u            | 3 u            | 5 e            | 18 e           | 23 e           | 58 e           |
| Russian Fed              | 5 e           | 61 e          | 76 e           | 225 e          | 535 e          | 1 276 e        | 1 428          | 1 661 e        | 1 816          | 2 170 e        |
| Türkiye                  | 40            | 249           | 833            | 3 421 o        | 5 063          | 5 995          | 6 667          | 7 816          | 9 425 o        | 11 292 o       |

# Solar photovoltaic

## Solaire photovoltaïque

## Solar fotovoltaica

| CAP (MW)        | 2014          | 2015          | 2016           | 2017           | 2018           | 2019           | 2020           | 2021           | 2022           | 2023           |
|-----------------|---------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| <b>Europe</b>   | <b>88 783</b> | <b>97 292</b> | <b>103 862</b> | <b>109 995</b> | <b>119 260</b> | <b>140 018</b> | <b>160 474</b> | <b>188 607</b> | <b>231 585</b> | <b>286 323</b> |
| Albania         | 1 e           | 1 e           | 1              | 1              | 1 e            | 14             | 21             | 23             | 100            | 240            |
| Andorra         | 0 o           | 0 o           | 0 o            | 0 o            | 1 o            | 2 o            | 3 o            | 4 o            | 4 e            | 4 e            |
| Austria         | 785           | 937           | 1 096          | 1 269          | 1 455          | 1 702          | 2 043          | 2 783          | 3 792          | 6 832 o        |
| Belarus         | 4             | 6             | 47             | 80             | 154            | 154            | 160            | 163            | 273            | 273 u          |
| Belgium         | 3 015         | 3 132         | 3 329          | 3 621          | 4 000          | 4 637          | 5 573          | 6 012          | 6 756          | 8 549 u        |
| Bosnia Herzg    | 7 o           | 8 o           | 14 o           | 16             | 18 o           | 22             | 35 o           | 57             | 102 o          | 132 o          |
| Bulgaria        | 1 029         | 1 028         | 1 030          | 1 031          | 1 033          | 1 044          | 1 100          | 1 275          | 1 737          | 2 937 e        |
| Croatia         | 33            | 48            | 56             | 60             | 68             | 85             | 109            | 138            | 222            | 461 u          |
| Cyprus          | 64            | 76            | 84             | 110            | 118            | 151            | 229            | 315            | 424            | 606 u          |
| Czechia         | 2 067         | 2 075         | 2 068          | 2 075          | 2 081          | 2 111          | 2 172          | 2 246          | 2 420          | 2 499 u        |
| Denmark         | 607           | 782           | 851            | 906            | 998 o          | 1 080          | 1 304          | 1 704          | 3 070          | 3 529          |
| Estonia         | 3 u           | 7 u           | 10             | 15             | 32             | 121            | 208            | 395            | 520            | 822            |
| Faroe Islands   |               |               |                |                | 0              | 0 o            | 0 o            | 0              | 0              | 0 e            |
| Finland         | 11            | 17            | 39             | 82             | 140            | 222            | 318            | 425            | 664            | 900 o          |
| France          | 6 034         | 7 138         | 7 702          | 8 610          | 9 629          | 10 729         | 11 917         | 14 603         | 17 341         | 20 542 e       |
| Germany         | 37 898        | 39 222        | 40 677         | 42 291         | 45 156         | 48 912         | 53 669         | 60 036         | 67 477         | 81 737         |
| Greece          | 2 596         | 2 604         | 2 604          | 2 606          | 2 651          | 2 834          | 3 288          | 4 277          | 5 430          | 7 030 o        |
| Hungary         | 89            | 172           | 235            | 344            | 728            | 1 400          | 2 131          | 2 968          | 4 235          | 5 835 u        |
| Iceland         | 1 e           | 3 e           | 4 e            | 4 e            | 5 e            | 7 e            | 7 e            | 7 e            | 7              | 7 e            |
| Ireland         | 3             | 5             | 11             | 29             | 53             | 96             | 152            | 228            | 289            | 738 u          |
| Italy           | 18 594        | 18 901        | 19 283         | 19 682         | 20 108         | 20 865         | 21 650         | 22 594         | 24 555         | 29 789 o       |
| Kosovo*         | 0             | 2             | 7              | 7              | 10             | 10             | 10             | 14             | 14             | 20             |
| Latvia          |               | 1             | 1              | 2              | 3              | 5              | 7              | 113            | 113            | 353 o          |
| Lithuania       | 69            | 69            | 70             | 74             | 82             | 103            | 164            | 255            | 572            | 1 165 e        |
| Luxembourg      | 110           | 116           | 122            | 128            | 131            | 160            | 187            | 277            | 317            | 432 o          |
| Malta           | 55            | 75            | 94             | 112            | 132            | 155            | 188            | 205            | 222            | 231 e          |
| Moldova Rep     | 1             | 1             | 2              | 2              | 3              | 5              | 4              | 14             | 60             | 87 o           |
| Montenegro      |               |               |                |                |                | 3              | 3              | 22 e           | 42 e           |                |
| Netherlands     | 1 007         | 1 526         | 2 135          | 2 911          | 4 608          | 7 228          | 11 110         | 14 823         | 19 600         | 23 904 o       |
| North Macedonia | 15            | 17            | 17             | 17             | 17             | 17             | 85 e           | 91             | 190 o          | 535 o          |
| Norway          | 13 u          | 15 u          | 27 u           | 45 u           | 68             | 120            | 160            | 205            | 366 o          | 666 e          |
| Poland          | 27            | 108           | 187            | 287            | 562            | 1 539          | 3 955          | 7 416          | 12 170         | 15 809 o       |
| Portugal        | 415           | 447           | 513            | 579            | 667            | 901            | 1 100          | 1 646          | 2 646          | 3 876 e        |
| Romania         | 1 293         | 1 326         | 1 372          | 1 374          | 1 386          | 1 398          | 1 383          | 1 394          | 1 809          | 1 917 o        |
| Serbia          | 13 e          | 16 e          | 17 e           | 18 e           | 21 e           | 23 e           | 31             | 52             | 137            | 137 e          |
| Slovakia        | 533           | 533           | 533            | 528            | 471            | 590            | 535            | 537            | 549            | 631 e          |
| Slovenia        | 224           | 239           | 232            | 247            | 247            | 278            | 370            | 461            | 626            | 1 034 o        |
| Spain           | 4 697         | 4 704         | 4 713          | 4 723          | 4 764          | 8 807          | 10 136         | 13 715         | 23 311         | 28 712         |
| Sweden          | 60            | 104           | 153            | 244            | 428            | 714            | 1 107          | 1 606          | 2 388          | 3 488 e        |
| Switzerland     | 1 061         | 1 394         | 1 664          | 1 906 o        | 2 173          | 2 498          | 2 973          | 3 655          | 4 340 e        | 5 840 u        |
| UK              | 5 528         | 9 601         | 11 914         | 12 760         | 13 060         | 13 345         | 13 551         | 13 915         | 14 651         | 15 919 o       |
| Ukraine         | 819 o         | 841 o         | 955 o          | 1 200 o        | 2 003 o        | 5 936 o        | 7 331          | 8 062 u        | 8 062 e        | 8 062          |

# Solar photovoltaic

## Solaire photovoltaïque

## Solar fotovoltaica

| CAP (MW)              | 2014          | 2015          | 2016          | 2017          | 2018           | 2019           | 2020           | 2021           | 2022           | 2023           |
|-----------------------|---------------|---------------|---------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|
| <b>European Union</b> | <b>81 670</b> | <b>85 778</b> | <b>89 589</b> | <b>94 331</b> | <b>102 129</b> | <b>118 294</b> | <b>136 547</b> | <b>162 824</b> | <b>203 754</b> | <b>254 868</b> |
| <b>Middle East</b>    | <b>776</b>    | <b>1 046</b>  | <b>1 514</b>  | <b>2 142</b>  | <b>3 377</b>   | <b>5 627</b>   | <b>7 663</b>   | <b>9 817</b>   | <b>13 348</b>  | <b>17 882</b>  |
| Bahrain               | 5             | 5             | 6             | 6             | 10             | 10             | 21             | 46             | 57             |                |
| Iran IR               | 9             | 9             | 43            | 184 o         | 286 e          | 346 e          | 430 e          | 456 e          | 539 e          | 595 e          |
| Iraq                  | 37 o          | 37 e          | 37 e          | 37 e          | 37 e           | 37 e           | 37 e           | 37 e           | 42 e           | 42 e           |
| Israël                | 650           | 790           | 900           | 1 000         | 1 340          | 1 890          | 2 410          | 3 349          | 4 169          | 4 282          |
| Jordan                | 0 o           | 57 o          | 311 e         | 418 o         | 760 o          | 971 o          | 1 541 o        | 1 811 u        | 1 966 e        | 1 990 e        |
| Kuwait                | 2 o           | 3 o           | 21 e          | 21 e          | 32 e           | 33 e           | 33 e           | 33 e           | 50 e           | 50 e           |
| Lebanon               | 5 e           | 11 e          | 24 e          | 37 e          | 55 o           | 76 o           | 90 e           | 190 o          | 875 e          | 1 005 e        |
| Oman                  | 1 e           | 2 e           | 2 e           | 8 e           | 26 e           | 26 e           | 129 e          | 155 e          | 655 e          | 672 e          |
| Palestine             | 3             | 12            | 25            | 35            | 40             | 82 o           | 117 e          | 178 e          | 192 e          | 192 e          |
| Qatar                 | 4 u           | 4 e           | 5 u           | 5 e           | 5 e            | 5 e            | 5 e            | 805 u          | 805            |                |
| Saudi Arabia          | 24 e          | 24 e          | 24 e          | 34 e          | 34 e           | 59 e           | 359 e          | 389 e          | 390 e          | 2 535 e        |
| Syrian AR             |               |               |               | 0 u           | 1 u            | 2 u            | 12             | 33             | 60 o           | 60 e           |
| United Arab Em        | 30 e          | 31 e          | 35 e          | 253 u         | 500 o          | 1 835 o        | 2 232 u        | 2 902 e        | 3 296 u        | 5 307 e        |
| Yemen                 | 5 e           | 60 e          | 81 e          | 103 e         | 253 e          | 254 e          | 258 e          | 258 e          | 264 e          | 290 u          |
| <b>N America</b>      | <b>18 728</b> | <b>25 651</b> | <b>37 340</b> | <b>46 503</b> | <b>56 702</b>  | <b>70 066</b>  | <b>86 213</b>  | <b>108 082</b> | <b>127 659</b> | <b>154 503</b> |
| Canada                | 2 108 o       | 2 877 o       | 3 058 o       | 3 419 o       | 3 719 o        | 4 007 o        | 4 379 o        | 5 261 o        | 5 439 o        | 5 884 o        |
| Greenland             |               |               |               | 0 o           | 0 o            | 0 o            | 0              | 1              | 1 e            | 1 e            |
| Mexico                | 174 o         | 295 o         | 606 o         | 1 072 o       | 2 754 e        | 6 230 e        | 7 141 e        | 8 910 e        | 9 339 o        | 10 893 e       |
| USA                   | 16 445 o      | 22 479 o      | 33 676 o      | 42 012 o      | 50 229 o       | 59 829 o       | 74 693 o       | 93 911 o       | 112 881 o      | 137 725 o      |
| <b>Oceania</b>        | <b>4 206</b>  | <b>5 171</b>  | <b>6 057</b>  | <b>7 465</b>  | <b>11 395</b>  | <b>15 789</b>  | <b>20 165</b>  | <b>24 892</b>  | <b>29 563</b>  | <b>33 414</b>  |
| Amer Samoa            | 2 o           | 2 o           | 4 e           | 4 e           | 5 e            | 5 u            | 5 e            | 5 o            | 5 e            | 5 e            |
| Australia             | 4 134         | 5 032         | 5 877         | 7 239         | 11 125         | 15 450         | 19 769         | 24 393         | 28 884         | 32 609 o       |
| Cook Is               | 2 e           | 3 e           | 3 e           | 3 e           | 5 u            | 6 u            | 6 e            | 6 e            | 6 e            | 6 e            |
| Fiji                  | 2 u           | 4 u           | 6 u           | 8 u           | 8 u            | 8 u            | 9 u            | 9 u            | 9 u            | 11 e           |
| Fr Polynesia          | 26 o          | 30 o          | 32 o          | 35 o          | 38 o           | 41 o           | 45 o           | 46 e           | 52 e           | 53 e           |
| Guam                  | 1 o           | 32 o          | 35 o          | 36 e          | 38 e           | 40 e           | 41 e           | 43 e           | 105 e          | 105 e          |
| Kiribati              | 1 o           | 2 o           | 3 o           | 3 e           | 3 e            | 3 e            | 3 e            | 3 e            | 3 e            | 3 e            |
| Marshall Is           | 1 e           | 1 e           | 2 e           | 2 e           | 2 e            | 2 e            | 2 e            | 2 e            | 2 e            | 2 e            |
| Micronesia            | 1 e           | 1 e           | 2 e           | 2 e           | 2 u            | 3 e            | 3 e            | 3 e            | 3 e            | 3 e            |
| Nauru                 | 0 e           | 0 e           | 1 e           | 1 e           | 1 e            | 2 e            | 2 e            | 3 e            | 3 e            | 3 e            |
| New Caledon           | 3 o           | 7 o           | 10 o          | 27 o          | 39 o           | 75 o           | 96 o           | 146 o          | 180 o          | 185 e          |
| New Zealand           | 22            | 37            | 53            | 71            | 91             | 115            | 145            | 192            | 260            | 363 o          |
| Niue                  | 0 e           | 0 e           | 0 e           | 0 e           | 0 e            | 1 u            | 1 e            | 1 e            | 1 e            | 1 e            |
| Palau                 | 1 u           | 1 u           | 2 u           | 2 u           | 3 e            | 3 u            | 3 u            | 4 e            | 4 e            | 20 e           |
| Papua N Guin          | 0 e           | 1 u           | 1 u           | 1 u           | 1 u            | 1 u            | 3 e            | 4 e            | 4 e            | 4 e            |
| Samoa                 | 3 e           | 8 e           | 14 e          | 14 e          | 14 e           | 14 e           | 14 e           | 14 e           | 14 e           | 14 e           |
| Solomon Is            | 1 e           | 1 e           | 2 e           | 3 e           | 3 e            | 2 e            | 2 e            | 2 e            | 4 e            | 4 e            |
| Tokelau               | 1 u           | 1 u           | 1 u           | 1 e           | 1 e            | 1 e            | 1 e            | 1 e            | 1 e            | 1 e            |
| Tonga                 | 3 o           | 4 o           | 5 o           | 7 o           | 7 u            | 7 e            | 7 e            | 7 e            | 14 e           | 15 e           |
| Tuvalu                | 0 e           | 4 o           | 4 e           | 4 o           | 4 e            | 4 e            | 4 e            | 4 e            | 4 e            | 4 e            |
| Vanuatu               | 0 e           | 0 e           | 2 e           | 3 e           | 4 e            | 5 u            | 5 u            | 5 u            | 5 u            | 5 e            |
| <b>S America</b>      | <b>453</b>    | <b>901</b>    | <b>1 529</b>  | <b>3 712</b>  | <b>5 652</b>   | <b>8 579</b>   | <b>13 422</b>  | <b>21 151</b>  | <b>34 590</b>  | <b>49 284</b>  |
| Argentina             | 16 o          | 16 o          | 16 o          | 16 o          | 198            | 447 o          | 769 o          | 1 080 o        | 1 116          | 1 408 o        |
| Bolivia               | 6             | 5             | 5             | 5             | 5 o            | 5 o            | 121            | 170            | 171            | 172            |
| Brazil                | 21 e          | 46 e          | 128 e         | 1207 e        | 2 453 e        | 4 698 o        | 8 452 o        | 14 499 o       | 25 520 e       | 37 449 e       |
| Chile                 | 203 e         | 546 e         | 1 055 e       | 1 841 e       | 2 315 e        | 2 716 e        | 3 302 e        | 4 516 e        | 6 579 e        | 8 790 e        |
| Colombia              | 1             | 1             | 2             | 11            | 13             | 23 o           | 83 o           | 181 o          | 480 o          | 716 o          |
| Ecuador               | 26            | 26            | 26            | 26            | 28 o           | 28 o           | 28 o           | 28 o           | 29             | 31 o           |
| Falklands Malv        |               | 0 o           | 0 o           | 0 o           | 0 o            | 0 e            | 0 e            | 0 e            | 0 e            | 0 e            |
| Fr Guiana             | 36 o          | 51 o          | 51 o          | 51 o          | 51 o           | 54 o           | 55 e           | 55             | 55             | 55 e           |
| Guyana                | 1             | 1             | 2 e           | 4 e           | 6 e            | 8 e            | 8 e            | 9 e            | 10 e           | 15 e           |
| Paraguay              | 0 o           | 0 o           | 0 o           | 0 o           | 0 o            | 0 o            | 0              | 0              | 1              | 1 e            |
| Peru                  | 130 e         | 135 e         | 146 e         | 298 e         | 324 o          | 335 o          | 335 e          | 332 o          | 332 e          | 332 e          |
| Suriname              | 6 e           | 6 e           | 7 e           | 8 e           | 8 e            | 8 e            | 9 e            | 9 e            | 12 e           | 12 e           |
| Uruguay               | 4 o           | 64 o          | 89 o          | 243 o         | 248 o          | 254 o          | 258 o          | 266 o          | 280 o          | 297 o          |
| Venezuela             | 3 e           | 3 e           | 3 e           | 3 e           | 3 e            | 3 e            | 3 e            | 4 e            | 4 e            | 5 e            |

# Solar photovoltaic

## Solaire photovoltaïque

## Solar fotovoltaica

| PROD (GWh)    | 2014           | 2015           | 2016           | 2017           | 2018           | 2019           | 2020           | 2021             | 2022             |
|---------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|------------------|------------------|
| <b>World</b>  | <b>183 473</b> | <b>242 079</b> | <b>313 660</b> | <b>425 525</b> | <b>548 012</b> | <b>675 789</b> | <b>822 515</b> | <b>1 016 898</b> | <b>1 281 654</b> |
| <b>Africa</b> | <b>1 670</b>   | <b>2 894</b>   | <b>3 929</b>   | <b>6 059</b>   | <b>7 792</b>   | <b>9 593</b>   | <b>14 119</b>  | <b>17 512</b>    | <b>19 413</b>    |
| Algeria       | 3 e            | 47 e           | 238 e          | 240 e          | 555 e          | 578 e          | 698 e          | 675 e            | 717 e            |
| Angola        | 0 e            | 0 e            | 0 e            | 1 e            | 1 e            | 2 e            | 2 e            | 2 e              | 405 e            |
| Benin         | 1 e            | 3 e            | 4 e            | 4 e            | 4 e            | 6 e            | 7 e            | 8 e              | 11 e             |
| Botswana      | 3 e            | 3 e            | 5 e            | 5 e            | 6 e            | 6 e            | 6 e            | 6 e              | 6 e              |
| Burkina Faso  | 3 e            | 5 e            | 5 e            | 15 e           | 85 e           | 91 e           | 90 e           | 93 e             | 93 e             |
| Burundi       | 1 e            | 1 e            | 2 e            | 3 e            | 3 e            | 3 e            | 3 e            | 2 e              | 2 e              |
| Cabo Verde    | 7              | 6              | 6              | 7 o            | 9 o            | 9 e            | 7 e            | 7 e              | 72 e             |
| Cameroon      | 0 e            | 0 e            | 0 e            | 16 e           | 16 e           | 17 e           | 19 e           | 36 e             | 36 e             |
| Cent Afr Rep  | 0 e            | 0 e            | 0 e            | 0 e            | 0 e            | 0 e            | 0 e            | 0 e              | 0 e              |
| Chad          | 0 e            | 0 e            | 0 e            | 0 e            | 1 e            | 1 e            | 2 e            | 3 e              | 3 e              |
| Comoros       |                |                | 1 e            | 2 e            | 2 e            | 2 e            | 2 e            | 1 e              | 0 e              |
| Congo DR      | 2 e            | 2 e            | 6 e            | 7 e            | 11 e           | 12 e           | 17 e           | 1 055 e          | 2 114 e          |
| Congo Rep     | 0 e            | 0 e            | 0 e            | 0 e            | 0 e            | 1 e            | 1 e            | 1 e              | 1 e              |
| Cote d'Ivoire | e              | 0 e            | 1 e            | 1 e            | 3 e            | 6 e            | 8 e            | 10 e             | 12 e             |
| Djibouti      | 1 e            | 1 e            | 1 e            | 1 e            | 1 e            | 1 e            | 1 e            | 1 e              | 1 e              |
| Egypt         | 25 e           | 44 o           | 26 o           | 22 o           | 69 o           | 756 o          | 4 020 o        | 4 492 o          | 4 524 e          |
| Eq Guinea     |                |                | 0 e            | 0 e            | 0 e            | 0 e            | 0 e            | 0 e              | 0 e              |
| Eritrea       | 15 e           | 15 e           | 17 e           | 45 e           | 49 e           | 50 e           | 50 e           | 48 e             | 47 e             |
| Eswatini      | e              | e              | 0 e            | 0 e            | 0 e            | 0 e            | 0 e            | 0 e              | 0 e              |
| Ethiopia      | 16 e           | 18 e           | 21 e           | 22 e           | 20 e           | 20 e           | 32 e           | 34 e             | 34 e             |
| Gabon         | 0 e            | 0 e            | 0 e            | 0 e            | 0 e            | 0 e            | 0 e            | 1 e              | 1 e              |
| Gambia        | 1 e            | 1 e            | 2 e            | 2 e            | 2 e            | 3 e            | 3 e            | 3 e              | 3 e              |
| Ghana         | 7 e            | 14 e           | 20 e           | 270 e          | 42 e           | 190 e          | 68 e           | 74 e             | 79 e             |
| Guinea        | 0 e            | 0 e            | 0 e            | 1 e            | 20 e           | 22 e           | 23 e           | 23 e             | 25 e             |
| Guinea Bissau |                |                | 0 e            | 1 e            | 2 e            | 3 e            | 3 e            | 3 e              | 3 e              |
| Kenya         | 24 e           | 46 e           | 52 e           | 65 e           | 81 e           | 112 e          | 144 e          | 420 e            | 578 e            |
| Lesotho       | 1 e            | 1 e            | 1 e            | 1 e            | 1 e            | 1 e            | 1 e            | 1 e              | 1 e              |
| Liberia       | 0 e            | 0 e            | 1 e            | 1 e            | 2 e            | 2 e            | 3 e            | 4 e              | 5 e              |
| Libya         | 8 e            | 8 e            | 8 e            | 8 e            | 8 e            | 8 e            | 8 e            | 8 e              | 8 e              |
| Madagascar    | 0 e            | 1 e            | 2 e            | 3 e            | 36 e           | 38 e           | 40 e           | 40 e             | 84 e             |
| Malawi        | 2 e            | 2 e            | 5 e            | 6 e            | 6 e            | 6 e            | 10 e           | 10 e             | 12 e             |
| Mali          | 7 e            | 10 e           | 11 e           | 15 e           | 15 e           | 17 e           | 98 e           | 145 e            | 152 e            |
| Mauritania    | 30 e           | 26 e           | 59 e           | 61 e           | 148 e          | 149 e          | 145 e          | 145 e            | 119 e            |
| Mauritius     | 25 e           | 26 e           | 32 e           | 44 e           | 55 e           | 136 e          | 152 e          | 156 e            | 157 e            |
| Mayotte       | 15 e           | 15 e           | 15 e           | 17 e           | 17 e           | 25             | 27             | 44               | 44               |
| Morocco       | 24 e           | 24 e           | 26 e           | 31 e           | 186 e          | 423            | 417            | 562 e            | 612 e            |
| Mozambique    | 1 e            | 2 e            | 2 e            | 4 e            | 14 e           | 33 e           | 48 e           | 71 e             | 70 e             |
| Namibia       | 4 e            | 12 e           | 30 e           | 75 e           | 233 e          | 356 e          | 403 e          | 419 e            | 452 e            |
| Niger         | 11 e           | 11 e           | 11 e           | 11 e           | 13 e           | 24 e           | 24 e           | 24 e             | 24 e             |
| Nigeria       | 6 e            | 16 e           | 22 e           | 30 e           | 37 e           | 54 e           | 78 e           | 108 e            | 151 e            |
| Reunion       | 236 e          | 245 e          | 260 e          | 257 e          | 253 e          | 262 e          | 258 e          | 270 e            | 269 e            |
| Rwanda        | 7 o            | 16 e           | 19 e           | 21 e           | 25 e           | 31 e           | 34 e           | 36 e             | 36 e             |
| Sao Tome Prn  |                |                | 0 e            | 0 e            | 0 e            | 0 e            | 0 e            | 0 e              | 0 e              |
| Senegal       | 4 e            | 5 e            | 4 e            | 89 e           | 221 e          | 258 e          | 288 e          | 380 e            | 424 e            |
| Seychelles    | 1 e            | 2 e            | 4 e            | 5 e            | 6 e            | 7 e            | 9 e            | 19 e             | 20 e             |
| Sierra Leone  | 0 e            | 0 e            | 1 e            | 2 e            | 2 e            | 6 e            | 9 e            | 21 e             | 21 e             |
| Somalia       | 0 e            | 0 e            | 2 e            | 3 e            | 4 e            | 4 e            | 17 e           | 30 e             | 66 e             |
| South Africa  | 1 086 e        | 2 148 e        | 2 854 e        | 4 393 e        | 5 196 e        | 5 297 e        | 6 112 e        | 7 042 e          | 6 739            |
| South Sudan   | 0 e            | 0 e            | 0 e            | 0 e            | 1 e            | 1 e            | 3 e            | 4 e              | 4 e              |
| Sudan         | 13 e           | 13 e           | 18 e           | 20 e           | 20 e           | 22 e           | 28 e           | 28 e             | 126 e            |
| Tanzania      | 20 e           | 23 e           | 22 e           | 24 e           | 31 e           | 28 e           | 30 e           | 34 e             | 36 e             |
| Togo          | 0 e            | 0 e            | 0 e            | 1 e            | 9 e            | 12 e           | 15 o           | 73 o             | 103 e            |
| Tunisia       | 28 e           | 44 e           | 67 e           | 137 e          | 178 e          | 258 e          | 346 e          | 480 e            | 539 e            |
| Uganda        | 29 e           | 32 e           | 39 e           | 62 e           | 71 e           | 119 e          | 128 e          | 140 e            | 137 e            |
| Zambia        | 0 e            | 1 e            | 3 e            | 4 e            | 9 e            | 109 e          | 163 e          | 161 e            | 159 e            |
| Zimbabwe      | 4 e            | 4 e            | 5 e            | 6 e            | 12 e           | 17 e           | 21 e           | 56 e             | 76 e             |

# Solar photovoltaic

## Solaire photovoltaïque

## Solar fotovoltaica

| PROD (GWh)               | 2014          | 2015          | 2016           | 2017           | 2018           | 2019           | 2020           | 2021           | 2022           |
|--------------------------|---------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| <b>Asia</b>              | <b>55 392</b> | <b>89 071</b> | <b>135 988</b> | <b>208 060</b> | <b>292 101</b> | <b>369 663</b> | <b>441 909</b> | <b>551 472</b> | <b>686 755</b> |
| Afghanistan              | 32 e          | 33 e          | 36 e           | 39 e           | 39 e           | 56 e           | 66 e           | 79 e           | 94 e           |
| Bangladesh               | 232 e         | 266 e         | 220 e          | 292 e          | 315 e          | 374 e          | 459 e          | 613 e          | 864 e          |
| Bhutan                   | 0 e           | 0 e           | 0 e            | 0 e            | 0 e            | 0 e            | 0 e            | 0 e            | 0 e            |
| Brunei Darussalam        | 2 e           | 1 e           | 1 e            | 2 e            | 2 e            | 1 e            | 1 e            | 1 e            | 1 e            |
| Cambodia                 | 13 e          | 18 e          | 27 e           | 36 e           | 62 e           | 140 e          | 338 e          | 661 e          | 754 e          |
| China                    | 23 751        | 39 978        | 67 865         | 118 258        | 178 062 e      | 224 527 e      | 261 623 e      | 327 530 e      | 428 142 e      |
| China HK SAR             | 4             | 4             | 4              | 6              | 6              | 16             | 52             | 120            | 179            |
| Chinese Taipei           | 529 o         | 850 o         | 1109 o         | 1668 o         | 2 704 o        | 4 016 o        | 6 075 o        | 7 970 o        | 10 677 o       |
| India                    | 2 744 e       | 5 624 e       | 9 826 e        | 17 775 e       | 30 746 e       | 43 573 e       | 54 738 e       | 65 877 e       | 83 271 e       |
| Indonesia                | 72 e          | 89 e          | 105 e          | 115 e          | 91 o           | 118 o          | 171 o          | 193 o          | 444 o          |
| Japan                    | 22 952        | 34 802        | 45 761         | 55 068         | 62 668         | 69 381         | 79 087         | 86 080         | 92 614         |
| Kazakhstan               | 1             | 46            | 88             | 93             | 141            | 563            | 1 350          | 1 641 e        | 1 755 e        |
| Korea DPR                | 14 e          | 29 e          | 42 e           | 47 e           | 64 e           | 84 e           | 102 e          | 132 e          | 149 e          |
| Korea Rep                | 2 557         | 3 975         | 5 123          | 7 057          | 9 208          | 12 996         | 17 967         | 23 394         | 28 919         |
| Lao PDR                  | 2 e           | 3 e           | 3 e            | 11 e           | 20 e           | 45 e           | 66 e           | 68 e           | 68 e           |
| Malaysia                 | 196 o         | 280 o         | 363 e          | 427 e          | 477 e          | 481 e          | 430 e          | 460 e          | 460 e          |
| Maldives                 | 6 e           | 7 e           | 11 e           | 16 e           | 25 e           | 31 e           | 40 e           | 46 e           | 54 e           |
| Mongolia                 | 8 e           | 8 e           | 8 e            | 27             | 59             | 117            | 117            | 165 o          | 186 o          |
| Myanmar                  | 9 e           | 31 e          | 47 e           | 64 e           | 70 e           | 85 e           | 81 e           | 86 e           | 159 e          |
| Nepal                    | 16 e          | 18 e          | 19 e           | 76 e           | 81 e           | 84 e           | 84 e           | 86 e           | 103 e          |
| Pakistan                 | 238 e         | 382 e         | 682 e          | 916 e          | 921 e          | 921 e          | 1 026 e        | 1 167 e        | 1 265 e        |
| Philippines              | 21 e          | 146 e         | 1 108 e        | 1 215 e        | 1 272 e        | 1 283 e        | 1 420 e        | 1 530 e        | 1 904 e        |
| Singapore                | 27 e          | 50 e          | 103 o          | 141 e          | 188 e          | 301 e          | 399 e          | 557 e          | 748 e          |
| Sri Lanka                | 31 e          | 37 e          | 45 e           | 152 e          | 224 e          | 341 e          | 464 e          | 640 e          | 844 e          |
| Thailand                 | 1 925 o       | 2 382 o       | 3 380 o        | 4 542 o        | 4 542 o        | 5 140 o        | 5 035 o        | 5 011 o        | 4 999 o        |
| Timor Leste              | 2 e           | 2 e           | 2 e            | 2 e            | 1 e            | 1 e            | 1 e            | 1 e            | 1 e            |
| Uzbekistan               | 2             | 2             | 5              | 6              | 7              | 0              | 0              | 49 o           | 436 e          |
| Viet Nam                 | 5 e           | 5 e           | 5 e            | 8 e            | 105 e          | 4 988 e        | 10 718 e       | 27 315 e       | 27 665 e       |
| <b>C America + Carib</b> | <b>436</b>    | <b>1 199</b>  | <b>1 920</b>   | <b>2 379</b>   | <b>2 927</b>   | <b>3 909</b>   | <b>4 672</b>   | <b>6 155</b>   | <b>6 278</b>   |
| Anguilla                 | 1 u           | 2 u           | 2 u            | 2 u            | 3 u            | 4              | 4 e            | 4 e            | 4 e            |
| Antigua Barb             | 1             | 5             | 5 u            | 6 u            | 10 u           | 14 u           | 17 u           | 22 e           | 23 e           |
| Aruba                    | 6             | 10            | 12 u           | 13 u           | 19 e           | 26 e           | 26 e           | 26 e           | 26 e           |
| Bahamas                  | 2 e           | 3 e           | 3 e            | 3 e            | 4 e            | 5 e            | 6 e            | 10 e           | 18 e           |
| Barbados                 | 10            | 14            | 14 e           | 24 e           | 26 e           | 39 e           | 64 e           | 88 e           | 108 e          |
| Belize                   | 1 e           | 0 e           | 0 e            | 1 e            | 1 e            | 9 e            | 10 e           | 7 e            | 8 e            |
| BES Islands              | 0 e           | 0 e           | 3 e            | 4 e            | 8 e            | 9 o            | 8              | 9 o            | 8              |
| Br Virgin Is             | 0 e           | 0 e           | 1 e            | 2 e            | 2 e            | 2 e            | 2 e            | 2 e            | 2 e            |
| Cayman Is                |               |               | 2              | 9              | 15             | 17 e           | 20 e           | 22 e           | 22 e           |
| Costa Rica               | 8 o           | 14 o          | 20 o           | 23 o           | 49 o           | 71 o           | 83 o           | 107 o          | 106 o          |
| Cuba                     | 18            | 29            | 39             | 61 e           | 125 e          | 192 e          | 204 e          | 218 e          | 211 e          |
| Curacao                  | 9 e           | 15 e          | 18 e           | 19 e           | 20 e           | 20 e           | 22 e           | 14 e           | 14 e           |
| Dominica                 | 0             | 0             | 0 e            | 0 e            | 0 e            | 0              | 0              | 0 e            | 0 e            |
| Dominican Rep            | 23 o          | 39 o          | 93 o           | 164 o          | 259            | 372 o          | 597 o          | 850 o          | 1 238          |
| El Salvador              | 2 o           | 8 o           | 25 o           | 165 o          | 315 o          | 576 o          | 986 o          | 1 691 o        | 1 243          |
| Grenada                  | 1 o           | 1 o           | 2 o            | 3 o            | 3              | 4              | 4              | 4              | 4 o            |
| Guadeloupe               | 103           | 102 o         | 94 o           | 93 o           | 98 o           | 103 o          | 107 o          | 114 o          | 114 o          |
| Guatemala                | 15 o          | 161 o         | 203 e          | 210 e          | 220            | 245            | 233 o          | 241 o          | 231 o          |
| Haiti                    | 3 e           | 3 e           | 3 e            | 4 e            | 5 e            | 5 e            | 5 e            | 5 e            | 4 e            |
| Honduras                 | 7             | 430 o         | 889 o          | 929 o          | 999 o          | 1 127 o        | 1 067 o        | 1 088 o        | 975 o          |
| Jamaica                  | 7 e           | 11 e          | 15 e           | 44 e           | 46 e           | 90 e           | 125 e          | 132 e          | 132 e          |
| Martinique               | 84            | 81            | 83             | 76             | 82 o           | 85 o           | 84             | 92             | 93             |
| Montserrat               |               |               |                |                |                | 0 o            | 2 e            | 2 e            | 2 e            |
| Nicaragua                | 1             | 2 o           | 2 o            | 14 o           | 24 o           | 26 o           | 24 o           | 27 o           | 26 o           |
| Panama                   | 2 o           | 16 o          | 71 o           | 143 o          | 251 o          | 335 o          | 371 o          | 657 o          | 775 o          |
| Puerto Rico              | 113 o         | 225 o         | 291 o          | 345 o          | 312 e          | 498 e          | 563 e          | 679 e          | 846 e          |
| St Barth                 |               |               | 0 o            | 0 o            | 0 e            | 0              | 0 e            | 0 e            | 0 o            |
| St Kitts Nevis           | 2 e           | 2 e           | 3 e            | 3 e            | 3 e            | 3 e            | 5 e            | 5 e            | 5 e            |
| St Lucia                 | 0             | 1 e           | 1 e            | 1 e            | 6 u            | 8 u            | 8 u            | 8 u            | 8 u            |
| St Martin                | 3 e           | 4 e           | 3              | 0 e            | 0              | 0              | 1              | 1 o            | 2              |
| St Vincent Gren          | 0 o           | 1 o           | 1 o            | 1 o            | 1 o            | 2 o            | 4 o            | 2 o            | 2 e            |
| Trinidad Tobago          | 6 e           | 6 e           | 6 e            | 6 e            | 6 e            | 6 e            | 6 e            | 6 e            | 6 e            |
| Turks Caicos             |               |               | 0 e            | 0 e            | 1 e            | 1 e            | 1 o            | 4 e            | 5 e            |
| US Virgin Is             | 7 o           | 13 o          | 13 o           | 7 o            | 14 o           | 14 o           | 14 o           | 17 o           | 18 o           |
| <b>Eurasia</b>           | <b>27</b>     | <b>261</b>    | <b>1 158</b>   | <b>3 146</b>   | <b>8 241</b>   | <b>10 262</b>  | <b>12 743</b>  | <b>16 070</b>  | <b>19 719</b>  |
| Armenia                  |               |               | 0 e            | 0 o            | 19 o           | 24 o           | 57 o           | 164 o          | 524 o          |
| Azerbaijan               | 3             | 5             | 35             | 37             | 39             | 44             | 47             | 55 o           | 61 e           |
| Georgia                  |               |               | 0 e            | 1 e            | 1 e            | 4 e            | 6 e            | 23 e           | 30 e           |
| Russian Fed              | 7 e           | 62 e          | 79 e           | 219 e          | 381 e          | 940 e          | 1 683 e        | 1 886 e        | 2 217 e        |
| Türkische Rep.           | 17            | 194           | 1 043          | 2 889          | 7 800          | 9 250          | 10 950         | 13 943         | 16 888 o       |

# Solar photovoltaic

## Solaire photovoltaïque

## Solar fotovoltaica

| PROD (GWh)      | 2014          | 2015           | 2016           | 2017           | 2018           | 2019           | 2020           | 2021           | 2022           |
|-----------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| <b>Europe</b>   | <b>94 539</b> | <b>104 914</b> | <b>108 249</b> | <b>116 578</b> | <b>124 640</b> | <b>136 690</b> | <b>162 465</b> | <b>181 671</b> | <b>231 064</b> |
| Albania         | 1 e           | 1 e            | 1 e            | 1              | 1              | 22             | 32             | 41             | 161            |
| Andorra         | 0 o           | 0 o            | 0 o            | 1 o            | 1 o            | 1 o            | 1 o            | 1 o            | 2 o            |
| Austria         | 785           | 937            | 1 096          | 1 269          | 1 455          | 1 702          | 2 043          | 2 783          | 3 792          |
| Belarus         | 2             | 7              | 28             | 89             | 177            | 181            | 176            | 174            | 209 e          |
| Belgium         | 2 886         | 3 057          | 3 095          | 3 308          | 3 903          | 4 253          | 5 112          | 5 618          | 6 876          |
| Bosnia Herzg    | 8 e           | 9              | 24             | 21             | 21             | 30             | 45             | 72             | 114            |
| Bulgaria        | 1 257         | 1 382          | 1 388          | 1 403          | 1 343          | 1 417          | 1 469          | 1 467          | 2 094          |
| Croatia         | 35            | 57             | 66             | 79             | 75             | 83             | 96             | 149            | 152            |
| Cyprus          | 84            | 127            | 146            | 172            | 199            | 218            | 296            | 468            | 602            |
| Czechia         | 2 123         | 2 264          | 2 131          | 2 199          | 2 365          | 2 316          | 2 294          | 2 250          | 2 626          |
| Denmark         | 596           | 604            | 744            | 751            | 953            | 963            | 1 181          | 1 309          | 2 203          |
| Estonia         | 3 e           | 6 e            | 10             | 14             | 31             | 74             | 245            | 354            | 596            |
| Faroe Islands   |               |                |                |                |                | 0 o            | 0 o            | 0 o            | 0 o            |
| Finland         | 8             | 11             | 22             | 49             | 90             | 147            | 218            | 298            | 392            |
| France          | 6 392         | 7 754          | 8 660          | 9 587          | 10 808         | 12 165         | 13 189         | 15 357         | 19 985         |
| Germany         | 36 056        | 38 726         | 38 098         | 39 401         | 43 459         | 44 383         | 49 496         | 50 472         | 60 304         |
| Greece          | 3 792         | 3 900          | 3 930          | 3 991          | 3 791          | 4 429          | 4 447          | 5 251          | 7 140          |
| Hungary         | 67            | 141            | 244            | 349            | 629            | 1 497          | 2 459          | 3 796          | 4 732          |
| Iceland         | 1 e           | 2 e            | 3 e            | 3 e            | 4 e            | 5 e            | 5              | 5 e            | 5 u            |
| Ireland         | 1             | 2              | 5              | 10             | 18             | 33             | 53             | 79             | 148            |
| Italy           | 22 306        | 22 942         | 22 104         | 24 378         | 22 654         | 23 689         | 24 942         | 25 059         | 28 121         |
| Kosovo*         |               | 0              | 1              | 2              | 11             | 10             | 16             | 14             |                |
| Latvia          | 0             | 0              | 0              | 0              | 1              | 3              | 5              | 7              | 41             |
| Lithuania       | 73            | 73             | 66             | 68             | 87             | 91             | 129            | 191            | 342            |
| Luxembourg      | 95            | 104            | 100            | 108            | 119            | 130            | 161            | 180            | 276            |
| Malta           | 68            | 95             | 128            | 162            | 190            | 195            | 237            | 256            | 290            |
| Moldova Rep     | 1             | 2              | 2              | 2              | 1 e            | 1 e            | 3 e            | 8 e            | 30 e           |
| Montenegro      |               |                |                |                |                | 2              | 3              | 3              |                |
| Netherlands     | 725           | 1 109          | 1 602          | 2 204          | 3 708          | 5 399          | 8 568          | 11 304         | 17 079         |
| North Macedonia | 14            | 23             | 24             | 24             | 23             | 23             | 24             | 51             | 92             |
| Norway          | 12            | 13             | 24             | 40             | 61 e           | 107 e          | 82 o           | 109 o          | 173 o          |
| Poland          | 7             | 57             | 124            | 165            | 300            | 711            | 1 958          | 3 934          | 8 310 o        |
| Portugal        | 627           | 796            | 871            | 992            | 1 006          | 1 342          | 1 716          | 2 237          | 3 519          |
| Romania         | 1 616         | 1 982          | 1 820          | 1 856          | 1 771          | 1 778          | 1 733          | 1 703          | 1 988 o        |
| Serbia          | 15 e          | 19 e           | 19 e           | 23 e           | 24 e           | 28 e           | 35 e           | 59 e           | 160 o          |
| Slovakia        | 597           | 506            | 533            | 506            | 585            | 589            | 663            | 671            | 650 o          |
| Slovenia        | 257           | 274            | 267            | 284            | 255            | 303            | 368            | 453            | 646 o          |
| Spain           | 8 218         | 8 266          | 8 064          | 8 514          | 7 877          | 9 420          | 15 675         | 21 922         | 31 228 o       |
| Sweden          | 47            | 97             | 143            | 230            | 407            | 679            | 1 051          | 1 526          | 1 998 o        |
| Switzerland     | 842           | 1 119          | 1 333          | 1 683          | 1 945          | 2 178          | 2 599          | 2 842          | 3 858 u        |
| UK              | 4 054         | 7 533          | 10 395         | 11 457 u       | 12 668 u       | 12 418 u       | 12 504 u       | 12 075 u       | 13 283 u       |
| Ukraine         | 868           | 917            | 940            | 1 183          | 1 632          | 3 675          | 7 141          | 7 141 e        | 6 832 e        |

# Solar photovoltaic

## Solaire photovoltaïque

## Solar fotovoltaica

| PROD (GWh)            | 2014          | 2015          | 2016          | 2017           | 2018           | 2019           | 2020           | 2021           | 2022           |
|-----------------------|---------------|---------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|
| <b>European Union</b> | <b>89 212</b> | <b>95 769</b> | <b>95 962</b> | <b>102 545</b> | <b>108 581</b> | <b>118 536</b> | <b>140 337</b> | <b>159 652</b> | <b>206 699</b> |
| <b>Middle East</b>    | <b>1 083</b>  | <b>1 601</b>  | <b>2 540</b>  | <b>3 626</b>   | <b>5 637</b>   | <b>9 993</b>   | <b>13 911</b>  | <b>17 697</b>  | <b>21 668</b>  |
| Bahrain               | 9             | 9             | 11            | 11             | 11             | 18             | 18             | 39             | 83             |
| Iran IR               | 1             | 1             | 5             | 86 e           | 222 o          | 510            | 584 e          | 620 e          | 620 e          |
| Iraq                  | 57 e          | 57 e          | 57 e          | 57 e           | 377 o          | 377 o          | 377 e          | 377 e          | 377 e          |
| Israel                | 876 o         | 1 216 o       | 1 636 o       | 1 643 o        | 1 828 o        | 2 610 o        | 3 525 o        | 4 574 u        | 5 352          |
| Jordan                | 0 e           | 51 e          | 428 e         | 895 e          | 1 416 e        | 2 087 e        | 2 853 e        | 3 508 e        | 3 874 e        |
| Kuwait                | 3 e           | 5 e           | 49 e          | 51 e           | 53 e           | 55 e           | 51 e           | 73 e           | 90 e           |
| Lebanon               | 7 e           | 17 e          | 36 e          | 56 e           | 84 e           | 112 e          | 120 e          | 306 e          | 306 e          |
| Oman                  | 1             | 4             | 4 e           | 16 e           | 49 e           | 51 e           | 56 e           | 684 e          | 1 555 e        |
| Palestine             | 3             | 9             | 43            | 45             | 60             | 123 e          | 178 e          | 224            | 234 e          |
| Qatar                 | 7 e           | 7 e           | 8 e           | 8 e            | 8 e            | 8 e            | 8 e            | 8 e            | 8 e            |
| Saudi Arabia          | 46 e          | 46 e          | 46 e          | 65 e           | 65 e           | 112 e          | 680 e          | 737 e          | 1 102 e        |
| Syrian AR             |               |               |               | 0 e            | 2 e            | 4 e            | 20 e           | 58 e           | 102 e          |
| United Arab Em        | 63 e          | 62 e          | 61 e          | 493 e          | 971 o          | 3 434 e        | 4 942 e        | 5 991 e        | 7 455 e        |
| Yemen                 | 11 e          | 117 e         | 156 e         | 200 e          | 491 e          | 492 e          | 499 e          | 499 e          | 511 e          |
| <b>N America</b>      | <b>25 376</b> | <b>35 171</b> | <b>50 102</b> | <b>71 785</b>  | <b>86 100</b>  | <b>104 756</b> | <b>129 094</b> | <b>166 292</b> | <b>210 107</b> |
| Canada                | 2 079 o       | 2 841 o       | 3 005 o       | 3 308 o        | 3 491 o        | 3 752 o        | 4 072 o        | 5 113 o        | 5 737 o        |
| Greenland             |               |               |               | 0 e            | 0 e            | 0 e            | 0 e            | 1 e            | 1              |
| Mexico                | 221 o         | 239 o         | 464 o         | 1 084 o        | 1 364 o        | 7 061 o        | 9 119 o        | 13 026 o       | 20 557 o       |
| USA                   | 23 076        | 32 091        | 46 633        | 67 393 o       | 81 244 o       | 93 943 o       | 115 902 o      | 148 153 o      | 183 812 o      |
| <b>Oceania</b>        | <b>4 083</b>  | <b>5 164</b>  | <b>6 434</b>  | <b>8 346</b>   | <b>10 271</b>  | <b>15 297</b>  | <b>21 554</b>  | <b>28 333</b>  | <b>35 475</b>  |
| Amer Samoa            | 2 o           | 2 o           | 6 e           | 8 e            | 8 e            | 7 e            | 7 e            | 6 e            | 4 e            |
| Australia             | 4 007         | 5 019         | 6 205         | 8 066          | 9 925          | 14 842         | 21 028         | 27 712         | 34 682         |
| Cook Is               | 1 e           | 3 e           | 5 e           | 6 o            | 10 o           | 10 o           | 9 o            | 7 o            | 7 o            |
| Fiji                  | 3 e           | 5 e           | 8 e           | 10 e           | 11 e           | 11 e           | 12 e           | 12 e           | 13 e           |
| Fr Polynesia          | 27 o          | 32 o          | 33 o          | 36 o           | 37 o           | 40 o           | 42             | 47             | 50             |
| Guam                  | 3 e           | 31 e          | 66 e          | 63 e           | 74 e           | 77 e           | 80 e           | 83 e           | 141 e          |
| Kiribati              | 1 e           | 4 e           | 4 e           | 5 e            | 5 e            | 6 e            | 6 e            | 6 e            | 6 e            |
| Marshall Is           | 1 e           | 1 e           | 1 e           | 2 e            | 2 e            | 2 e            | 2 e            | 2 e            | 2 e            |
| Micronesia            | 2 e           | 2 e           | 2 e           | 2 e            | 1 e            | 2 e            | 2 e            | 2 e            | 2 e            |
| Nauru                 | 0 e           | 0 e           | 0 e           | 1 o            | 1 e            | 2 e            | 3 e            | 5 e            | 5 e            |
| New Caledon           | 5 o           | 7 o           | 11 o          | 28 o           | 47 o           | 116 o          | 150 o          | 188 o          | 226            |
| New Zealand           | 19            | 37            | 57            | 77             | 101            | 128            | 161            | 208            | 281            |
| Niue                  | 0 o           | 0 o           | 0 o           | 0 o            | 0 e            | 0 e            | 0 e            | 0 e            | 0 e            |
| Palau                 | 2 e           | 2 e           | 3 e           | 3 e            | 3 e            | 4 e            | 4 e            | 6 e            | 6 e            |
| Papua N Guin          | 0 e           | 1 e           | 2 e           | 2 e            | 2 e            | 4 e            | 5 e            | 5 e            | 6 o            |
| Samoa                 | 2 e           | 8 e           | 16 o          | 21 o           | 22 o           | 24 o           | 23 e           | 23 e           | 22 e           |
| Solomon Is            | 1 e           | 2 e           | 2 e           | 3 e            | 3 e            | 3 e            | 3 e            | 3 e            | 6              |
| Tokelau               | 1 e           | 2 e           | 2 e           | 2 e            | 2 e            | 2 e            | 2 e            | 2 e            | 2 e            |
| Tonga                 | 4 e           | 5 e           | 5 o           | 6 o            | 7 e            | 8 e            | 8 e            | 7 e            | 7 e            |
| Tuvalu                | 0 o           | 1 o           | 2 o           | 2 o            | 2              | 2              | 2              | 2 e            | 2 e            |
| Vanuatu               | 0 e           | 1 e           | 3 e           | 4 e            | 6 e            | 8 e            | 8 e            | 7 e            | 7 e            |
| <b>S America</b>      | <b>868</b>    | <b>1 803</b>  | <b>3 340</b>  | <b>5 547</b>   | <b>10 304</b>  | <b>15 625</b>  | <b>22 048</b>  | <b>31 696</b>  | <b>51 174</b>  |
| Argentina             | 16 o          | 15 o          | 14 o          | 17 e           | 108 o          | 801 o          | 1 346 e        | 2 204          | 2 942 e        |
| Bolivia               | 4             | 5             | 6             | 7              | 127 o          | 188 o          | 250 o          | 351            | 352            |
| Brazil                | 17 o          | 63 o          | 92 o          | 841 o          | 3 473 o        | 6 666 o        | 10 760 o       | 16 764         | 30 138 o       |
| Chile                 | 480 e         | 1 263 e       | 2 643 e       | 3 927 e        | 5 242 e        | 6 465 e        | 8 057 e        | 10 545 e       | 15 604 e       |
| Colombia              | 9             | 9             | 9             | 14             | 21             | 143            | 208            | 356            | 635            |
| Ecuador               | 16 o          | 36 o          | 39 o          | 37 o           | 38 o           | 38 o           | 38 o           | 37 o           | 39 o           |
| Falklands Malv        | o             | 0 o           | 0 o           | 0 o            | 0 o            | 0 o            | 0 o            | 0 o            | 0 o            |
| Fr Guiana             | 52 e          | 54 e          | 52 e          | 52 e           | 52 e           | 51 e           | 56 e           | 57 e           | 48 e           |
| Guyana                | 2 e           | 2 e           | 3 e           | 4 e            | 7 e            | 10 e           | 12 e           | 13 e           | 14 e           |
| Paraguay              | 0 e           | 0 e           | 0 e           | 0 e            | 0 e            | 0 e            | 0 e            | 1 e            | 1              |
| Peru                  | 247 o         | 286 o         | 306 o         | 361 o          | 797            | 823 o          | 839 o          | 861 o          | 880 o          |
| Suriname              | 9 e           | 9 e           | 9 e           | 10 e           | 12 e           | 12 e           | 12 e           | 13 e           | 13 e           |
| Uruguay               | 6 o           | 52 o          | 158 o         | 266 o          | 418 o          | 424 o          | 465 o          | 489 o          | 503 o          |
| Venezuela             | 10 o          | 10 o          | 10 o          | 10 o           | 9 o            | 5 o            | 6 o            | 6 o            | 6 o            |

# Concentrated solar power

## Solaire thermique à concentration

## Energía solar termoeléctrica

| CAP (MW)              | 2014         | 2015         | 2016         | 2017         | 2018         | 2019         | 2020         | 2021         | 2022         | 2023         |
|-----------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| <b>World</b>          | <b>4 600</b> | <b>4 851</b> | <b>4 971</b> | <b>5 072</b> | <b>5 812</b> | <b>6 378</b> | <b>6 416</b> | <b>6 377</b> | <b>6 576</b> | <b>6 876</b> |
| <b>Africa</b>         | <b>165</b>   | <b>325</b>   | <b>425</b>   | <b>525</b>   | <b>985</b>   | <b>1 085</b> |
| Algeria               | 25 o         | 25 o         | 25 o         | 25 e         |
| Egypt                 | 20           | 20           | 20           | 20 o         | 20 e         |
| Morocco               | 20           | 180          | 180          | 180 o        | 540          | 540          | 540          | 540 e        | 540 e        | 540 e        |
| South Africa          | 100 o        | 100 o        | 200 o        | 300 o        | 400 o        | 500 u        | 500 o        | 500 e        | 500 e        | 500 u        |
| <b>Asia</b>           | <b>345</b>   | <b>345</b>   | <b>365</b>   | <b>365</b>   | <b>580</b>   | <b>744</b>   | <b>798</b>   | <b>918</b>   | <b>918</b>   | <b>918</b>   |
| China                 | 11           | 11           | 31 u         | 31 u         | 246 u        | 396 u        | 450          | 570          | 570          | 570          |
| India                 | 329 u        | 343 u        | 343 u        | 343 e        | 343 u        | 343 u        |
| Korea Rep             | 0 e          | 0 e          | 0 e          | 0 e          |              |              |              |              |              |              |
| Thailand              | 5            | 5            | 5            | 5            | 5 e          | 5 e          | 5 e          | 5 e          | 5 e          | 5 e          |
| <b>Eurasia</b>        | <b>1</b>     |
| Türkiye               | 1 o          | 1 o          | 1 o          | 1 o          | 1 o          | 1 e          | 1 e          | 1 e          | 1            | 1 e          |
| <b>Europe</b>         | <b>2 312</b> | <b>2 321</b> |
| France                |              |              |              |              |              | 9 o          | 9 e          | 9 e          | 9            | 9 e          |
| Germany               | 2            | 2            | 2            | 2 e          | 2            | 2            | 2 e          | 2            | 2            | 2 e          |
| Italy                 | 6 o          | 6 o          | 6 o          | 6 o          | 6 e          | 6 e          | 6 e          | 6 e          | 6 e          | 6 e          |
| Romania               |              |              |              | 0            | 0            | 0            | 0            | 0            | 0            | 0 e          |
| Spain                 | 2 304        | 2 304        | 2 304        | 2 304        | 2 304        | 2 304        | 2 304        | 2 304        | 2 304 o      | 2 304 o      |
| <b>European Union</b> | <b>2 312</b> | <b>2 321</b> |
| <b>Middle East</b>    | <b>108</b>   | <b>108</b>   | <b>108</b>   | <b>108</b>   | <b>158</b>   | <b>450</b>   | <b>444</b>   | <b>444</b>   | <b>644</b>   | <b>944</b>   |
| Israel                | 6 e          | 6 e          | 6 e          | 6 e          | 6 e          | 248 u        | 242 o        | 242 e        | 242 e        | 242 e        |
| Kuwait                | 2 o          | 2 o          | 2 o          | 2 o          | 2 o          | 52 o         | 52 o         | 52 o         | 52 o         | 52 e         |
| Saudi Arabia          |              |              |              |              |              | 50 u         | 50 e         | 50 e         | 50 e         | 50 e         |
| United Arab Em        | 100 o        | 100 u        | 100 u        | 100 u        | 100 e        | 100 e        | 100 e        | 100 e        | 300          | 600          |
| <b>N America</b>      | <b>1 667</b> | <b>1 758</b> | <b>1 758</b> | <b>1 758</b> | <b>1 774</b> | <b>1 775</b> | <b>1 765</b> | <b>1 497</b> | <b>1 497</b> | <b>1 497</b> |
| Mexico                |              |              |              |              |              | 16           | 17           | 17           | 17 e         | 17 e         |
| USA                   | 1 667 o      | 1 758 o      | 1 748 o      | 1 480 o      | 1 480 o      | 1 480 o      |
| <b>Oceania</b>        | <b>3</b>     |
| Australia             | 3            | 3            | 3            | 3            | 3            | 3            | 3            | 3 e          | 3 e          | 3 e          |
| <b>S America</b>      |              |              |              |              |              |              |              | <b>108</b>   | <b>108</b>   | <b>108</b>   |
| Chile                 |              |              |              |              |              |              |              | 108          | 108 o        | 108 o        |

# Concentrated solar power

## Solaire thermique à concentration

## Energía solar termoeléctrica

| PROD (GWh)            | 2014         | 2015          | 2016          | 2017          | 2018          | 2019          | 2020          | 2021          | 2022          |
|-----------------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| <b>World</b>          | <b>9 128</b> | <b>10 190</b> | <b>11 137</b> | <b>11 990</b> | <b>12 024</b> | <b>14 114</b> | <b>13 170</b> | <b>13 672</b> | <b>12 828</b> |
| <b>Africa</b>         | <b>351</b>   | <b>416</b>    | <b>1 201</b>  | <b>1 868</b>  | <b>2 440</b>  | <b>3 606</b>  | <b>3 304</b>  | <b>3 535</b>  | <b>3 050</b>  |
| Algeria               | 197          | 148           | 134           | 186 e         | 133 e         | 133 e         | 118 e         | 118 e         | 118 e         |
| Egypt                 | 114 o        | o             | 168 o         | 581 o         | 484 o         | 733 o         | 433 o         | 479 o         | 479 e         |
| Morocco               | 39 e         | 4 o           | 400 o         | 414 o         | 794           | 1 186         | 1 130         | 1 286         | 864           |
| South Africa          | 0            | 263           | 498           | 687 o         | 1 029 o       | 1 554 o       | 1 623 o       | 1 652 o       | 1 589 o       |
| <b>Asia</b>           | <b>373</b>   | <b>375</b>    | <b>375</b>    | <b>375</b>    | <b>375</b>    | <b>380</b>    | <b>382</b>    | <b>387</b>    | <b>387</b>    |
| China                 | 7            | 9             | 9             | 9             | 9             | 14 e          | 16 e          | 21 e          | 21 e          |
| India                 | 360 e        | 360 e         | 360 e         | 360 e         | 360 o         | 360 e         | 360 e         | 360 e         | 360 e         |
| Thailand              | 5            | 5 e           | 5 e           | 5 e           | 5 e           | 5 e           | 5 e           | 5 e           | 5 e           |
| <b>Eurasia</b>        | <b>3</b>     | <b>3</b>      | <b>3</b>      | <b>3</b>      | <b>3</b>      | <b>3</b>      | <b>3</b>      | <b>3</b>      | <b>3</b>      |
| Türkiye               | 3 e          | 3 e           | 3 e           | 3             | 3             | 3             | 3             | 3 e           | 3 o           |
| <b>Europe</b>         | <b>5 467</b> | <b>5 606</b>  | <b>5 592</b>  | <b>5 895</b>  | <b>4 879</b>  | <b>5 695</b>  | <b>5 004</b>  | <b>5 188</b>  | <b>4 548</b>  |
| Italy                 | 12 e         | 12 e          | 12 e          | 12            | 12            | 12            | 12            | 12 e          | 12            |
| Spain                 | 5 455        | 5 593         | 5 579         | 5 883         | 4 867         | 5 683         | 4 992         | 5 176         | 4 536 o       |
| <b>European Union</b> | <b>5 467</b> | <b>5 606</b>  | <b>5 592</b>  | <b>5 895</b>  | <b>4 879</b>  | <b>5 695</b>  | <b>5 004</b>  | <b>5 188</b>  | <b>4 548</b>  |
| <b>Middle East</b>    | <b>243</b>   | <b>243</b>    | <b>261</b>    | <b>257</b>    | <b>382</b>    | <b>887</b>    | <b>1 043</b>  | <b>1 266</b>  | <b>1 268</b>  |
| Israel                |              |               |               |               |               | 505           | 638           | 776 u         | 731 e         |
| Kuwait                |              |               |               |               |               | 4 e           | 5 e           | 71 e          | 90 e          |
| Saudi Arabia          |              |               |               |               |               | 149 e         | 149 e         | 149 e         | 149 e         |
| United Arab Em        | 243          | 243           | 261           | 257 o         | 233 o         | 230           | 252 o         | 270           | 298           |
| <b>N America</b>      | <b>2 688</b> | <b>3 544</b>  | <b>3 701</b>  | <b>3 587</b>  | <b>3 940</b>  | <b>3 535</b>  | <b>3 427</b>  | <b>3 170</b>  | <b>3 259</b>  |
| USA                   | 2 688        | 3 544         | 3 701         | 3 587 o       | 3 940 o       | 3 535 o       | 3 427 o       | 3 170 o       | 3 259 o       |
| <b>Oceania</b>        | <b>3</b>     | <b>4</b>      | <b>4</b>      | <b>5</b>      | <b>5</b>      | <b>6</b>      | <b>6</b>      | <b>5</b>      | <b>5</b>      |
| Australia             | 3            | 4             | 4             | 5             | 5             | 6             | 6             | 5             | 5             |
| <b>S America</b>      |              |               |               |               |               |               |               | <b>119</b>    | <b>308</b>    |
| Chile                 |              |               |               |               |               |               |               | 119 e         | 308 o         |

**Bioenergy**  
**Bioénergie**  
**Bioenergía**

| CAP (MW)                 | 2014          | 2015          | 2016           | 2017           | 2018           | 2019           | 2020           | 2021           | 2022           | 2023           |
|--------------------------|---------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| <b>World</b>             | <b>90 101</b> | <b>96 110</b> | <b>104 874</b> | <b>110 589</b> | <b>117 821</b> | <b>124 098</b> | <b>132 017</b> | <b>138 338</b> | <b>144 286</b> | <b>148 840</b> |
| <b>Africa</b>            | <b>1 379</b>  | <b>1 460</b>  | <b>1 523</b>   | <b>1 639</b>   | <b>1 793</b>   | <b>1 805</b>   | <b>1 819</b>   | <b>1 917</b>   | <b>1 916</b>   | <b>1 899</b>   |
| Angola                   | 51            | 51            | 51             | 51             | 51             | 51             | 51             | 51             | 51             | 51             |
| Burkina Faso             | 0             | 1             | 1              | 1              | 1              | 1              | 1              | 1              | 1              | 1              |
| Burundi                  | 4             | 4             | 4              | 4              | 4              | 4              | 4              | 4              | 4              | 4              |
| Chad                     | 2             | 2             | 2              | 2              | 2              | 2              | 2              | 2              | 2              | 2              |
| Congo DR                 | 0             | 0             | 0              | 2              | 3              | 3              | 3              | 3              | 3              | 3              |
| Congo Rep                | 12            | 12            | 12             | 12             | 12             | 12             | 12             | 12             | 12             | 12             |
| Egypt                    | 67            | 67            | 67             | 67             | 67             | 79             | 79             | 123            | 123            | 131            |
| Eswatini                 | 106           | 106           | 106            | 106            | 106            | 106            | 106            | 106            | 106            | 106            |
| Ethiopia                 | 71            | 119           | 145            | 205            | 290            | 290            | 290            | 335            | 335            | 310            |
| Gabon                    |               | 1             | 1              | 1              | 1              | 1              | 1              | 1              | 1              | 1              |
| Ghana                    | 8             | 8             | 8              | 8              | 8              | 8              | 8              | 8              | 8              | 8              |
| Kenya                    | 56            | 58            | 84             | 85             | 88             | 88             | 99             | 99             | 99             | 99             |
| Liberia                  | 0             | 0             | 0              | 0              | 0              | 0              | 0              | 0              | 0              | 0              |
| Madagascar               | 0             | 0             | 0              | 0              | 0              | 0              | 0              | 0              | 0              | 0              |
| Malawi                   | 19            | 19            | 19             | 19             | 19             | 19             | 19             | 19             | 19             | 19             |
| Mali                     | 6             | 6             | 6              | 41             | 41             | 41             | 41             | 41             | 41             | 41             |
| Mauritius                | 80            | 91            | 91             | 91             | 91             | 91             | 91             | 91             | 91             | 91             |
| Morocco                  | 1             | 5             | 7              | 7              | 7              | 7              | 7              | 7              | 7              | 7              |
| Mozambique               | 73            | 73            | 73             | 73             | 73             | 73             | 73             | 73             | 73             | 73             |
| Namibia                  | 0             | 0             | 0              | 0              | 0              | 0              | 0              | 0              | 0              | 0              |
| Nigeria                  | 8             | 8             | 9              | 9              | 9              | 9              | 13             | 21             | 21             | 21             |
| Reunion                  | 44            | 45            | 46             | 46             | 87             | 87             | 87             | 87             | 86             | 86             |
| Rwanda                   | 1             | 1             | 1              | 1              | 1              | 1              | 1              | 1              | 1              | 1              |
| Senegal                  | 25            | 25            | 25             | 25             | 25             | 25             | 25             | 25             | 25             | 25             |
| Sierra Leone             | 34            | 34            | 34             | 34             | 34             | 34             | 34             | 34             | 34             | 34             |
| South Africa             | 246           | 251           | 256            | 260            | 265            | 265            | 265            | 265            | 265            | 265            |
| Sudan                    | 199           | 199           | 199            | 199            | 199            | 199            | 199            | 199            | 199            | 199            |
| Tanzania                 | 70            | 68            | 68             | 70             | 70             | 70             | 70             | 70             | 70             | 70             |
| Uganda                   | 54            | 65            | 65             | 76             | 96             | 96             | 96             | 96             | 96             | 96             |
| Zambia                   | 43            | 43            | 43             | 43             | 43             | 43             | 43             | 43             | 43             | 43             |
| Zimbabwe                 | 100           | 100           | 100            | 100            | 100            | 100            | 100            | 100            | 100            | 100            |
| <b>Asia</b>              | <b>20 721</b> | <b>23 522</b> | <b>29 854</b>  | <b>33 181</b>  | <b>37 032</b>  | <b>41 943</b>  | <b>48 670</b>  | <b>54 608</b>  | <b>58 729</b>  | <b>62 068</b>  |
| Bangladesh               | 44            | 45            | 45             | 45             | 45             | 45             | 45             | 45             | 45             | 45             |
| Cambodia                 | 59            | 58            | 55             | 75             | 76             | 68             | 66             | 75             | 75             | 75             |
| China                    | 6 653         | 7 977         | 9 269          | 11 234         | 13 235         | 16 537         | 21 855         | 27 345         | 29 390         | 31 255         |
| China HK SAR             |               |               | 17             | 45             | 45             | 52             | 52             | 52             | 58             | 58             |
| Chinese Taipei           | 396           | 395           | 395            | 395            | 397            | 393            | 400            | 408            | 408            | 398            |
| India                    | 5 030         | 5 478         | 8 895          | 9 417          | 10 137         | 10 226         | 10 533         | 10 592         | 10 669         | 10 752         |
| Indonesia                | 1 729         | 1 734         | 1 775          | 1 849          | 1 875          | 1 884          | 1 893          | 2 270          | 3 087          | 3 375          |
| Japan                    | 1 047         | 1 319         | 1 631          | 2 026          | 2 450          | 2 924          | 3 324          | 3 976          | 4 825          | 5 805          |
| Kazakhstan               | 0             | 0             | 0              | 1              | 1              | 2              | 8              | 8              | 8              | 14             |
| Korea Rep                | 601           | 729           | 1 745          | 2 348          | 2 387          | 3 215          | 3 628          | 2 731          | 2 731          | 2 746          |
| Lao PDR                  | 40            | 40            | 40             | 40             | 123            | 123            | 123            | 123            | 123            | 123            |
| Malaysia                 | 1 431         | 1 555         | 1 526          | 800            | 810            | 883            | 891            | 904            | 904            | 904            |
| Maldives                 |               |               |                |                |                | 0              | 0              | 0              | 0              | 0              |
| Myanmar                  | 52            | 48            | 49             | 52             | 57             | 59             | 59             | 59             | 59             | 59             |
| Nepal                    | 7             | 7             | 7              | 7              | 7              | 7              | 6              | 7              | 7              | 7              |
| Pakistan                 | 325           | 333           | 374            | 374            | 432            | 432            | 432            | 432            | 432            | 432            |
| Philippines              | 143           | 233           | 259            | 276            | 341            | 393            | 513            | 519            | 633            | 615            |
| Singapore                | 154           | 168           | 169            | 170            | 169            | 166            | 164            | 176            | 234            | 246            |
| Sri Lanka                | 20            | 20            | 24             | 26             | 27             | 40             | 45             | 45             | 45             | 45             |
| Thailand                 | 2 796         | 3 165         | 3 322          | 3 728          | 4 037          | 4 097          | 4 241          | 4 476          | 4 603          | 4 705          |
| Timor Leste              | 0             | 0             | 0              | 0              | 0              | 0              | 0              | 0              | 0              | 0              |
| Viet Nam                 | 195           | 220           | 256            | 274            | 382            | 389            | 390            | 373            | 393            | 408            |
| <b>C America + Carib</b> | <b>1 755</b>  | <b>2 048</b>  | <b>2 276</b>   | <b>2 438</b>   | <b>2 601</b>   | <b>2 529</b>   | <b>2 655</b>   | <b>2 495</b>   | <b>2 461</b>   | <b>2 493</b>   |
| Aruba                    | 2             | 2             | 2              | 2              |                |                |                |                |                |                |
| Bahamas                  | 1             | 1             | 1              | 1              | 1              | 1              | 1              | 1              | 1              | 1              |
| Belize                   | 28            | 28            | 28             | 36             | 36             | 36             | 36             | 36             | 36             | 36             |
| Costa Rica               | 44            | 49            | 49             | 49             | 62             | 80             | 80             | 81             | 81             | 81             |
| Cuba                     | 409           | 440           | 405            | 442            | 464            | 370            | 476            | 482            | 440            | 440            |
| Dominican Rep            | 19            | 20            | 20             | 81             | 81             | 81             | 81             | 81             | 83             | 83             |
| El Salvador              | 136           | 202           | 259            | 270            | 305            | 300            | 300            | 301            | 303            | 303            |
| Guadeloupe               | 31            | 31            | 31             | 32             | 33             | 33             | 50             | 50             | 50             | 50             |
| Guatemala                | 719           | 878           | 992            | 1 028          | 1 081          | 1 036          | 1 036          | 870            | 870            | 870            |
| Honduras                 | 138           | 169           | 213            | 213            | 213            | 225            | 225            | 225            | 225            | 225            |
| Jamaica                  | 32            | 32            | 32             | 32             | 32             | 32             | 32             | 32             | 32             | 32             |
| Martinique               | 2             | 3             | 3              | 3              | 44             | 44             | 44             | 44             | 44             | 44             |
| Nicaragua                | 134           | 134           | 179            | 179            | 179            | 220            | 220            | 220            | 220            | 220            |
| Panama                   | 60            | 60            | 60             | 68             | 68             | 68             | 68             | 68             | 71             | 103            |
| Puerto Rico              |               |               | 2              | 2              | 2              | 2              | 5              | 5              | 5              | 5              |
| St Lucia                 |               |               | 0              | 0              | 0              | 0              | 0              | 0              | 0              | 0              |
| <b>Eurasia</b>           | <b>1 628</b>  | <b>1 679</b>  | <b>1 767</b>   | <b>1 887</b>   | <b>2 005</b>   | <b>2 201</b>   | <b>2 515</b>   | <b>3 000</b>   | <b>3 278</b>   | <b>3 411</b>   |
| Armenia                  |               |               |                |                |                |                |                |                |                |                |
| Azerbaijan               | 37            | 38            | 38             | 43             | 45             | 45             | 45             | 45             | 45             | 38             |
| Russian Fed              | 1 370         | 1 370         | 1 370          | 1 373          | 1 373          | 1 373          | 1 373          | 1 373          | 1 373          | 1 373          |
| Türkiye                  | 221           | 271           | 359            | 472            | 587            | 784            | 1 097          | 1 583          | 1 861          | 2 001          |

**Bioenergy**  
**Bioénergie**  
**Bioenergía**

| CAP (MW)              | 2014          | 2015          | 2016          | 2017          | 2018          | 2019          | 2020          | 2021          | 2022          | 2023          |
|-----------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| <b>Europe</b>         | <b>33 297</b> | <b>34 725</b> | <b>35 730</b> | <b>37 170</b> | <b>40 038</b> | <b>41 348</b> | <b>41 865</b> | <b>41 601</b> | <b>42 458</b> | <b>42 825</b> |
| Albania               |               |               |               | 1             | 1             | 1             | 1             | 1             | 1             | 1             |
| Andorra               | 5             | 5             | 5             | 5             | 5             | 5             | 5             | 5             | 5             | 5             |
| Austria               | 1 411         | 1 396         | 1 393         | 1 290         | 1 271         | 1 249         | 1 251         | 1 171         | 1 195         | 1 195         |
| Belarus               | 35            | 35            | 40            | 41            | 48            | 53            | 123           | 120           | 139           | 141           |
| Belgium               | 913           | 943           | 923           | 912           | 887           | 906           | 922           | 817           | 870           | 871           |
| Bosnia Herzg          |               |               | 1             | 1             | 1             | 2             | 2             | 10            | 11            | 11            |
| Bulgaria              | 40            | 54            | 57            | 52            | 69            | 57            | 48            | 47            | 50            | 50            |
| Croatia               | 25            | 53            | 63            | 87            | 115           | 127           | 135           | 154           | 161           | 161           |
| Cyprus                | 10            | 10            | 10            | 10            | 13            | 13            | 13            | 13            | 14            | 14            |
| Czechia               | 745           | 771           | 773           | 802           | 781           | 831           | 846           | 853           | 861           | 865           |
| Denmark               | 1 248         | 1 243         | 1 305         | 1 791         | 1 774         | 1 982         | 2 086         | 2 152         | 2 007         | 2 007         |
| Estonia               | 278           | 281           | 281           | 281           | 259           | 273           | 296           | 296           | 296           | 294           |
| Faroe Islands         |               |               |               |               |               | 0             | 2             | 2             | 2             | 2             |
| Finland               | 1 977         | 1 987         | 2 009         | 2 230         | 2 230         | 2 227         | 2 706         | 2 711         | 3 197         | 3 059         |
| France                | 1 463         | 1 531         | 1 661         | 1 712         | 1 925         | 2 008         | 1 932         | 2 046         | 2 067         | 2 187         |
| Germany               | 8 202         | 8 429         | 8 660         | 8 982         | 9 662         | 9 994         | 10 320        | 9 792         | 9 830         | 9 950         |
| Greece                | 47            | 51            | 58            | 64            | 82            | 88            | 97            | 109           | 128           | 128           |
| Hungary               | 549           | 519           | 427           | 491           | 513           | 504           | 509           | 551           | 533           | 534           |
| Ireland               | 70            | 70            | 72            | 103           | 103           | 107           | 107           | 108           | 108           | 108           |
| Italy                 | 3 359         | 3 367         | 3 439         | 3 450         | 3 491         | 3 454         | 3 439         | 3 420         | 3 392         | 3 434         |
| Latvia                | 121           | 126           | 143           | 154           | 158           | 158           | 156           | 152           | 144           | 133           |
| Lithuania             | 71            | 71            | 72            | 79            | 104           | 105           | 116           | 116           | 118           | 215           |
| Luxembourg            | 23            | 24            | 25            | 36            | 36            | 56            | 56            | 56            | 56            | 95            |
| Malta                 | 3             | 3             | 5             | 5             | 5             | 5             | 5             | 3             | 3             | 3             |
| Moldova Rep           | 3             | 3             | 3             | 6             | 6             | 6             | 7             | 7             | 15            | 15            |
| Netherlands           | 752           | 792           | 772           | 785           | 827           | 818           | 866           | 936           | 934           | 934           |
| North Macedonia       |               | 4             | 5             | 7             | 8             | 10            | 10            | 11            | 14            | 14            |
| Norway                | 140           | 140           | 87            | 87            | 87            | 81            | 77            | 77            | 77            | 79            |
| Poland                | 816           | 961           | 974           | 968           | 1 004         | 1 010         | 1 045         | 1 100         | 1 217         | 1 231         |
| Portugal              | 561           | 577           | 587           | 582           | 648           | 702           | 715           | 717           | 706           | 704           |
| Romania               | 94            | 118           | 123           | 140           | 141           | 139           | 165           | 140           | 185           | 185           |
| Serbia                | 6             | 6             | 11            | 15            | 19            | 28            | 31            | 36            | 39            | 39            |
| Slovakia              | 237           | 242           | 253           | 246           | 243           | 226           | 225           | 250           | 264           | 264           |
| Slovenia              | 62            | 63            | 60            | 62            | 60            | 60            | 67            | 67            | 67            | 96            |
| Spain                 | 1 032         | 1 035         | 1 037         | 1 045         | 1 057         | 1 112         | 1 264         | 1 278         | 1 279         | 1 279         |
| Sweden                | 4 483         | 4 716         | 4 850         | 4 822         | 5 021         | 5 299         | 4 462         | 4 376         | 4 507         | 4 507         |
| Switzerland           | 229           | 240           | 241           | 242           | 242           | 241           | 242           | 234           | 234           | 234           |
| UK                    | 4 240         | 4 808         | 5 250         | 5 513         | 7 044         | 7 230         | 7 305         | 7 391         | 7 460         | 7 483         |
| Ukraine               | 50            | 53            | 60            | 73            | 98            | 180           | 212           | 275           | 275           | 301           |
| <b>European Union</b> | <b>28 668</b> | <b>29 512</b> | <b>30 110</b> | <b>31 263</b> | <b>32 646</b> | <b>33 681</b> | <b>34 036</b> | <b>33 618</b> | <b>34 371</b> | <b>34 686</b> |
| <b>Middle East</b>    | <b>60</b>     | <b>81</b>     | <b>88</b>     | <b>88</b>     | <b>86</b>     | <b>86</b>     | <b>84</b>     | <b>84</b>     | <b>103</b>    | <b>115</b>    |
| Iran IR               | 11            | 11            | 11            | 11            | 11            | 11            | 11            | 11            | 14            | 14            |
| Israel                | 17            | 28            | 28            | 28            | 28            | 28            | 26            | 26            | 26            | 26            |
| Jordan                | 4             | 13            | 13            | 13            | 13            | 13            | 13            | 13            | 13            | 13            |
| Lebanon               | 2             | 2             | 9             | 9             | 7             | 7             | 7             | 7             | 7             | 7             |
| Palestine             |               |               |               | 0             | 0             | 0             | 0             | 0             | 0             | 0             |
| Qatar                 | 19            | 19            | 19            | 19            | 19            | 19            | 19            | 19            | 19            | 19            |
| Syrian AR             | 7             | 7             | 7             | 7             | 7             | 7             | 7             | 7             | 7             | 7             |
| United Arab Em        | 1             | 1             | 1             | 1             | 1             | 1             | 1             | 1             | 17            | 29            |
| Yemen                 |               |               |               |               |               |               | 0             | 0             | 0             | 0             |
| <b>N America</b>      | <b>15 679</b> | <b>16 326</b> | <b>16 445</b> | <b>16 496</b> | <b>16 279</b> | <b>15 609</b> | <b>15 454</b> | <b>14 906</b> | <b>14 684</b> | <b>14 576</b> |
| Canada                | 2 651         | 2 631         | 2 700         | 2 785         | 2 792         | 2 685         | 2 691         | 2 691         | 2 700         | 2 700         |
| Greenland             | 1             | 1             | 1             | 1             | 1             | 1             | 1             | 1             | 1             | 1             |
| Mexico                | 608           | 725           | 843           | 873           | 871           | 871           | 873           | 880           | 882           | 886           |
| USA                   | 12 420        | 12 969        | 12 901        | 12 838        | 12 616        | 12 053        | 11 889        | 11 334        | 11 102        | 10 990        |
| <b>Oceania</b>        | <b>1 038</b>  | <b>1 044</b>  | <b>1 079</b>  | <b>1 095</b>  | <b>1 095</b>  | <b>1 095</b>  | <b>1 097</b>  | <b>1 104</b>  | <b>1 104</b>  | <b>1 106</b>  |
| Australia             | 824           | 826           | 864           | 864           | 864           | 864           | 871           | 871           | 871           | 871           |
| Fiji                  | 42            | 47            | 47            | 59            | 59            | 59            | 59            | 66            | 66            | 66            |
| New Caledon           | 0             | 0             | 0             | 0             | 0             | 0             | 0             | 0             | 0             | 0             |
| New Zealand           | 148           | 149           | 146           | 150           | 150           | 150           | 144           | 144           | 144           | 145           |
| Papua N Guin          | 18            | 18            | 18            | 18            | 18            | 18            | 18            | 18            | 18            | 18            |
| Samoa                 | 2             |               |               |               | 0             | 1             | 1             | 1             | 1             | 1             |
| Solomon Is            | 1             | 1             | 1             | 1             | 1             | 1             | 1             | 1             | 1             | 1             |
| Vanuatu               | 3             | 3             | 3             | 3             | 3             | 3             | 3             | 3             | 3             | 3             |
| <b>S America</b>      | <b>14 545</b> | <b>15 226</b> | <b>16 113</b> | <b>16 594</b> | <b>16 892</b> | <b>17 483</b> | <b>17 859</b> | <b>18 622</b> | <b>19 552</b> | <b>20 348</b> |
| Argentina             | 190           | 219           | 219           | 227           | 243           | 265           | 333           | 364           | 368           | 381           |
| Bolivia               | 52            | 116           | 131           | 120           | 139           | 144           | 144           | 143           | 192           | 256           |
| Brazil                | 12 343        | 13 311        | 14 187        | 14 575        | 14 821        | 15 359        | 15 690        | 16 364        | 17 224        | 17 597        |
| Chile                 | 926           | 468           | 463           | 502           | 503           | 502           | 470           | 491           | 490           | 522           |
| Colombia              | 215           | 237           | 257           | 310           | 320           | 320           | 329           | 351           | 353           | 353           |
| Ecuador               | 144           | 144           | 146           | 152           | 152           | 152           | 152           | 153           | 153           | 153           |
| Fr Guiana             | 2             | 2             | 2             | 2             | 2             | 5             | 5             | 5             | 5             | 5             |
| Guyana                | 51            | 51            | 42            | 42            | 42            | 42            | 42            | 42            | 42            | 42            |
| Paraguay              | 39            | 39            | 39            | 39            | 39            | 41            | 41            | 41            | 41            | 41            |
| Peru                  | 154           | 197           | 186           | 196           | 197           | 218           | 218           | 187           | 203           | 203           |
| Suriname              |               | 2             | 2             | 2             | 2             | 2             | 2             | 2             | 2             | 2             |
| Uruguay               | 419           | 429           | 429           | 417           | 423           | 423           | 423           | 423           | 423           | 737           |
| Venezuela             | 10            | 10            | 10            | 10            | 10            | 10            | 10            | 56            | 56            | 56            |

# Bioenergy

## Bioénergie

### Bioenergía

| PROD (GWh)               | 2014           | 2015           | 2016           | 2017           | 2018           | 2019           | 2020           | 2021           | 2022           |
|--------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| <b>World</b>             | <b>428 096</b> | <b>455 088</b> | <b>469 808</b> | <b>492 012</b> | <b>515 837</b> | <b>545 168</b> | <b>568 554</b> | <b>609 546</b> | <b>618 916</b> |
| <b>Africa</b>            | <b>2 915</b>   | <b>3 048</b>   | <b>3 270</b>   | <b>3 112</b>   | <b>3 321</b>   | <b>3 371</b>   | <b>3 109</b>   | <b>3 147</b>   | <b>3 224</b>   |
| Angola                   | 36             | 42             | 155            | 200            | 200            | 200            | 200            | 200            | 200            |
| Burkina Faso             | 0              | 0              | 0              | 1              | 1              | 1              | 1              | 1              | 1              |
| Burundi                  | 6              | 6              | 7              | 7              | 6              | 5              | 6              | 6              | 6              |
| Chad                     | 9              | 9              | 9              | 9              | 8              | 7              | 8              | 8              | 9              |
| Congo DR                 | 0              | 0              | 0              | 6              | 8              | 8              | 8              | 8              | 8              |
| Congo Rep                | 31             | 31             | 32             | 32             | 32             | 32             | 32             | 32             | 32             |
| Egypt                    | 321            | 318            | 311            | 308            | 316            | 356            | 236            | 277            | 350            |
| Eswatini                 | 168            | 174            | 181            | 180            | 188            | 189            | 191            | 203            | 187            |
| Ethiopia                 | 31             | 28             | 28             | 23             | 26             | 30             | 27             | 16             | 8              |
| Gabon                    | 1              | 1              | 1              | 1              | 1              | 1              | 1              | 1              | 1              |
| Ghana                    | 19             | 19             | 19             | 19             | 20             | 20             | 20             | 19             | 20             |
| Kenya                    | 199            | 202            | 194            | 152            | 163            | 144            | 195            | 195            | 195            |
| Liberia                  | 0              | 0              | 0              | 1              | 1              | 1              | 1              | 1              | 1              |
| Madagascar               | 1              | 1              | 1              | 1              | 1              | 1              | 1              | 1              | 1              |
| Malawi                   | 52             | 52             | 48             | 44             | 47             | 46             | 49             | 51             | 51             |
| Mali                     | 30             | 30             | 33             | 34             | 35             | 37             | 37             | 37             | 37             |
| Mauritius                | 478            | 530            | 516            | 480            | 460            | 459            | 408            | 369            | 300            |
| Morocco                  | 5              | 5              | 11             | 40             | 40             | 40             | 40             | 40             | 40             |
| Mozambique               | 62             | 124            | 129            | 137            | 105            | 107            | 105            | 78             | 65             |
| Namibia                  | 0              | 0              | 0              | 0              | 0              | 0              | 0              | 0              | 0              |
| Nigeria                  | 19             | 19             | 23             | 28             | 30             | 27             | 41             | 61             | 61             |
| Reunion                  | 264            | 287            | 261            | 274            | 211            | 262            | 241            | 240            | 251            |
| Rwanda                   | 2              | 2              | 2              | 2              | 2              | 2              | 2              | 2              | 2              |
| Senegal                  | 41             | 52             | 58             | 65             | 66             | 67             | 66             | 67             | 67             |
| Sierra Leone             | 4              | 9              | 10             | 10             | 9              | 9              | 9              | 10             | 10             |
| South Africa             | 364            | 317            | 331            | 386            | 431            | 430            | 410            | 405            | 405            |
| Sudan                    | 116            | 118            | 120            | 130            | 122            | 109            | 103            | 107            | 107            |
| Tanzania                 | 131            | 137            | 138            | 143            | 146            | 155            | 151            | 152            | 152            |
| Uganda                   | 231            | 276            | 282            | 256            | 317            | 307            | 295            | 374            | 471            |
| Zambia                   | 71             | 64             | 63             | 67             | 71             | 72             | 74             | 79             | 79             |
| Zimbabwe                 | 221            | 195            | 306            | 76             | 258            | 248            | 153            | 110            | 113            |
| <b>Asia</b>              | <b>107 075</b> | <b>117 972</b> | <b>124 852</b> | <b>140 770</b> | <b>157 879</b> | <b>182 489</b> | <b>199 416</b> | <b>231 628</b> | <b>256 390</b> |
| Bangladesh               | 45             | 30             | 23             | 43             | 31             | 35             | 35             | 32             | 12             |
| Cambodia                 | 79             | 101            | 100            | 106            | 110            | 131            | 102            | 90             | 52             |
| China                    | 34 592         | 40 738         | 49 404         | 59 992         | 67 301         | 82 250         | 98 200         | 117 800        | 129 700        |
| China HK SAR             | 86             | 72             | 89             | 89             | 90             | 93             | 92             | 141            | 150            |
| Chinese Taipei           | 1 913          | 1 938          | 1 904          | 1 858          | 1 969          | 1 987          | 1 990          | 1 998          | 1 961          |
| India                    | 33 236         | 28 866         | 18 212         | 16 664         | 18 729         | 20 913         | 20 663         | 22 253         | 24 551         |
| Indonesia                | 9 200          | 9 760          | 10 215         | 11 763         | 12 439         | 12 177         | 12 363         | 14 971         | 20 621         |
| Japan                    | 15 261         | 15 853         | 17 325         | 19 908         | 20 994         | 25 439         | 27 743         | 34 134         | 36 700         |
| Kazakhstan               | 44             | 41             | 46             | 51             | 27             | 29             | 35             | 30             | 0              |
| Korea Rep                | 1 606          | 2 683          | 5 832          | 6 100          | 7 526          | 8 464          | 8 298          | 7 506          | 9 144          |
| Lao PDR                  | 53             | 54             | 55             | 73             | 208            | 365            | 379            | 354            | 405            |
| Malaysia                 | 400            | 425            | 199            | 397            | 1 719          | 2 097          | 2 865          | 2 865          | 2 866          |
| Maldives                 |                |                |                |                |                | 0              | 0              | 0              | 0              |
| Myanmar                  | 225            | 206            | 212            | 231            | 251            | 260            | 261            | 256            | 263            |
| Nepal                    | 9              | 10             | 10             | 9              | 13             | 13             | 7              | 10             | 11             |
| Pakistan                 | 1 653          | 2 017          | 2 731          | 3 288          | 2 913          | 2 747          | 2 839          | 3 202          | 3 202          |
| Philippines              | 269            | 441            | 830            | 1 118          | 1 209          | 1 145          | 1 366          | 1 550          | 1 427          |
| Singapore                | 726            | 779            | 774            | 757            | 714            | 677            | 610            | 642            | 971            |
| Sri Lanka                | 41             | 57             | 72             | 67             | 87             | 118            | 99             | 128            | 82             |
| Thailand                 | 7 202          | 13 495         | 16 453         | 17 819         | 20 966         | 22 995         | 21 012         | 23 259         | 23 678         |
| Timor Leste              | 0              | 0              | 0              | 0              | 0              | 0              | 0              | 0              | 0              |
| Viet Nam                 | 435            | 405            | 366            | 437            | 585            | 554            | 459            | 408            | 595            |
| <b>C America + Carib</b> | <b>4 728</b>   | <b>5 676</b>   | <b>6 272</b>   | <b>5 994</b>   | <b>6 763</b>   | <b>7 947</b>   | <b>6 730</b>   | <b>7 221</b>   | <b>6 495</b>   |
| Aruba                    |                |                | 5              |                |                |                |                |                |                |
| Bahamas                  | 6              | 6              | 6              | 6              | 6              | 6              | 6              | 6              | 6              |
| Belize                   | 97             | 121            | 115            | 120            | 137            | 163            | 270            | 133            | 174            |
| Costa Rica               | 93             | 101            | 93             | 106            | 95             | 91             | 78             | 87             | 75             |
| Cuba                     | 637            | 704            | 688            | 624            | 445            | 523            | 564            | 542            | 393            |
| Dominican Rep            | 106            | 110            | 112            | 371            | 461            | 465            | 423            | 457            | 448            |
| El Salvador              | 441            | 567            | 715            | 711            | 748            | 829            | 815            | 904            | 815            |
| Guadeloupe               | 60             | 56             | 50             | 66             | 68             | 64             | 76             | 247            | 238            |
| Guatemala                | 2 159          | 2 690          | 2 876          | 2 181          | 2 950          | 3 461          | 2 516          | 2 603          | 2 094          |
| Honduras                 | 331            | 542            | 752            | 806            | 724            | 965            | 711            | 804            | 805            |
| Jamaica                  | 33             | 30             | 24             | 24             | 13             | 21             | 17             | 17             | 10             |
| Martinique               | 11             | 13             | 15             | 13             | 90             | 249            | 228            | 241            | 264            |
| Nicaragua                | 492            | 455            | 536            | 671            | 707            | 853            | 744            | 912            | 904            |
| Panama                   | 262            | 279            | 279            | 282            | 309            | 242            | 271            | 255            | 254            |
| Puerto Rico              | 0              | 7              | 11             | 11             | 15             | 15             | 9              | 14             | 14             |
| St Lucia                 |                | 0              | 0              | 0              | 0              | 0              | 0              | 0              | 0              |
| <b>Eurasia</b>           | <b>1 289</b>   | <b>1 455</b>   | <b>1 842</b>   | <b>2 351</b>   | <b>2 884</b>   | <b>3 811</b>   | <b>5 038</b>   | <b>7 039</b>   | <b>8 671</b>   |
| Armenia                  |                |                |                |                |                |                |                |                |                |
| Azerbaijan               | 174            | 182            | 175            | 170            | 162            | 196            | 201            | 193            | 205            |
| Russian Fed              | 32             | 32             | 32             | 84             | 73             | 109            | 393            | 393            | 393            |
| Türkiye                  | 1 083          | 1 241          | 1 635          | 2 096          | 2 650          | 3 506          | 4 445          | 6 453          | 8 073          |

**Bioenergy**  
**Bioénergie**  
**Bioenergía**

| PROD (GWh)            | 2014           | 2015           | 2016           | 2017           | 2018           | 2019           | 2020           | 2021           | 2022           |
|-----------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| <b>Europe</b>         | <b>169 271</b> | <b>181 062</b> | <b>183 606</b> | <b>188 237</b> | <b>193 345</b> | <b>200 357</b> | <b>206 205</b> | <b>215 835</b> | <b>204 463</b> |
| Andorra               | 13             | 14             | 14             | 17             | 21             | 22             | 20             | 17             | 19             |
| Austria               | 4 548          | 4 648          | 4 780          | 4 921          | 4 930          | 4 655          | 4 591          | 4 480          | 4 690          |
| Belarus               | 121            | 140            | 147            | 163            | 174            | 304            | 578            | 581            | 519            |
| Belgium               | 4 425          | 5 512          | 5 375          | 5 712          | 5 419          | 5 174          | 5 269          | 4 691          | 4 936          |
| Bosnia Herzg          |                |                | 1              | 6              | 8              | 8              | 13             | 42             | 31             |
| Bulgaria              | 200            | 272            | 353            | 396            | 1 573          | 1 821          | 1 699          | 2 589          | 2 244          |
| Croatia               | 165            | 266            | 431            | 526            | 668            | 878            | 978            | 1 100          | 1 129          |
| Cyprus                | 51             | 51             | 52             | 52             | 57             | 58             | 61             | 60             | 58             |
| Czechia               | 4 663          | 4 790          | 4 756          | 4 967          | 4 828          | 5 032          | 5 215          | 5 385          | 5 406          |
| Denmark               | 4 295          | 4 182          | 4 845          | 6 249          | 5 890          | 5 943          | 5 919          | 8 718          | 7 273          |
| Estonia               | 758            | 818            | 949            | 1 095          | 1 307          | 1 363          | 1 852          | 1 769          | 1 569          |
| Faroe Islands         |                |                |                |                |                |                | 1              | 7              | 5              |
| Finland               | 11 759         | 11 420         | 11 523         | 11 860         | 12 909         | 13 291         | 11 570         | 13 579         | 12 762         |
| France                | 5 987          | 6 526          | 7 522          | 7 781          | 8 378          | 8 644          | 8 764          | 9 575          | 9 781          |
| Germany               | 48 288         | 50 326         | 50 929         | 50 916         | 50 794         | 50 127         | 50 931         | 49 096         | 48 136         |
| Greece                | 220            | 231            | 275            | 310            | 314            | 402            | 454            | 528            | 569            |
| Hungary               | 2 126          | 2 161          | 2 071          | 2 152          | 2 296          | 2 227          | 2 155          | 2 231          | 2 138          |
| Ireland               | 541            | 479            | 679            | 735            | 848            | 855            | 924            | 995            | 1 013          |
| Italy                 | 18 734         | 19 397         | 19 509         | 19 378         | 19 153         | 19 563         | 19 634         | 19 071         | 17 616         |
| Latvia                | 669            | 769            | 823            | 931            | 944            | 927            | 865            | 862            | 801            |
| Lithuania             | 400            | 446            | 439            | 504            | 543            | 533            | 594            | 686            | 708            |
| Luxembourg            | 115            | 126            | 140            | 171            | 217            | 278            | 372            | 389            | 359            |
| Malta                 | 7              | 7              | 8              | 10             | 9              | 6              | 6              | 7              | 7              |
| Moldova Rep           | 13             | 15             | 14             | 23             | 28             | 29             | 28             | 32             | 24             |
| Netherlands           | 5 013          | 4 936          | 4 909          | 4 605          | 4 553          | 5 822          | 8 839          | 10 918         | 9 786          |
| North Macedonia       | 20             | 36             | 52             | 54             | 55             | 57             | 54             | 51             |                |
| Norway                | 253            | 253            | 233            | 259            | 204            | 253            | 240            | 215            | 238            |
| Poland                | 10 065         | 10 062         | 7 981          | 6 521          | 6 581          | 7 717          | 8 384          | 8 095          | 7 665          |
| Portugal              | 3 048          | 3 104          | 3 071          | 3 220          | 3 156          | 3 363          | 3 786          | 4 003          | 4 113          |
| Romania               | 505            | 524            | 531            | 525            | 437            | 504            | 547            | 653            | 647            |
| Serbia                | 25             | 27             | 37             | 78             | 105            | 138            | 192            | 247            | 252            |
| Slovakia              | 1 417          | 1 662          | 1 731          | 1 696          | 1 625          | 1 693          | 1 673          | 1 844          | 1 490          |
| Slovenia              | 258            | 267            | 281            | 290            | 267            | 251            | 274            | 277            | 269            |
| Spain                 | 5 414          | 5 764          | 5 689          | 6 078          | 5 911          | 5 572          | 6 138          | 6 943          | 6 799          |
| Sweden                | 10 696         | 10 765         | 11 487         | 12 076         | 11 913         | 13 036         | 11 177         | 13 082         | 13 105         |
| Switzerland           | 1 690          | 1 624          | 1 750          | 1 859          | 1 827          | 1 879          | 1 991          | 2 066          | 2 079          |
| UK                    | 22 620         | 29 261         | 30 065         | 31 894         | 35 102         | 37 528         | 39 661         | 40 196         | 35 968         |
| Ukraine               | 169            | 199            | 169            | 211            | 301            | 407            | 755            | 755            | 209            |
| <b>European Union</b> | <b>144 715</b> | <b>149 877</b> | <b>151 478</b> | <b>154 040</b> | <b>155 900</b> | <b>160 324</b> | <b>163 230</b> | <b>172 397</b> | <b>165 871</b> |
| <b>Middle East</b>    | <b>268</b>     | <b>262</b>     | <b>314</b>     | <b>347</b>     | <b>353</b>     | <b>305</b>     | <b>344</b>     | <b>330</b>     | <b>350</b>     |
| Iran IR               | 47             | 16             | 22             | 24             | 24             | 11             | 22             | 22             | 22             |
| Israel                | 70             | 76             | 122            | 125            | 125            | 107            | 117            | 103            | 111            |
| Jordan                | 6              | 6              | 4              | 4              | 3              | 4              | 4              | 4              | 4              |
| Lebanon               | 10             | 10             | 10             | 30             | 32             | 32             | 32             | 32             | 32             |
| Palestine             |                |                |                | 1              | 0              | 0              | 0              | 0              | 0              |
| Qatar                 | 102            | 119            | 123            | 129            | 135            | 118            | 134            | 134            | 134            |
| Syrian AR             | 33             | 33             | 33             | 33             | 33             | 33             | 33             | 33             | 33             |
| United Arab Em        |                |                |                |                |                | 1              | 0              | 0              | 13             |
| <b>N America</b>      | <b>80 890</b>  | <b>80 564</b>  | <b>82 372</b>  | <b>82 280</b>  | <b>81 166</b>  | <b>76 095</b>  | <b>72 354</b>  | <b>71 329</b>  | <b>68 215</b>  |
| Canada                | 8 706          | 9 142          | 11 881         | 11 364         | 10 995         | 10 782         | 10 023         | 10 056         | 9 060          |
| Greenland             | 13             | 14             | 13             | 13             | 14             | 15             | 14             | 14             | 12             |
| Mexico                | 1 353          | 1 341          | 1 461          | 2 046          | 2 272          | 2 104          | 2 048          | 1 677          | 1 997          |
| USA                   | 70 818         | 70 067         | 69 017         | 68 857         | 67 885         | 63 194         | 60 269         | 59 582         | 57 146         |
| <b>Oceania</b>        | <b>4 432</b>   | <b>4 533</b>   | <b>4 622</b>   | <b>4 406</b>   | <b>4 416</b>   | <b>4 417</b>   | <b>4 285</b>   | <b>4 291</b>   | <b>4 104</b>   |
| Australia             | 3 511          | 3 608          | 3 722          | 3 501          | 3 518          | 3 496          | 3 351          | 3 347          | 3 190          |
| Fiji                  | 81             | 70             | 47             | 66             | 84             | 94             | 111            | 97             | 115            |
| New Caledon           | 0              | 0              | 1              | 0              | 1              | 1              | 0              | 0              | 0              |
| New Zealand           | 803            | 816            | 814            | 802            | 775            | 791            | 783            | 801            | 753            |
| Papua N Guin          | 29             | 31             | 32             | 33             | 34             | 31             | 31             | 32             | 32             |
| Samoa                 | 1              |                |                |                |                | 0              | 5              | 10             | 10             |
| Solomon Is            | 4              | 4              | 4              | 4              | 3              | 3              | 3              | 3              | 3              |
| Vanuatu               | 3              | 4              | 2              |                | 1              | 1              | 1              |                |                |
| <b>S America</b>      | <b>57 228</b>  | <b>60 517</b>  | <b>62 658</b>  | <b>64 515</b>  | <b>65 710</b>  | <b>66 377</b>  | <b>71 072</b>  | <b>68 726</b>  | <b>67 002</b>  |
| Argentina             | 1 162          | 1 369          | 1 388          | 1 565          | 1 536          | 1 826          | 2 489          | 2 507          | 2 517          |
| Bolivia               | 126            | 202            | 176            | 166            | 168            | 217            | 327            | 455            | 528            |
| Brazil                | 47 079         | 49 741         | 51 344         | 52 922         | 54 396         | 54 952         | 58 789         | 55 801         | 55 145         |
| Chile                 | 5 327          | 5 615          | 5 957          | 6 062          | 5 689          | 5 394          | 5 237          | 5 604          | 4 595          |
| Colombia              | 1 297          | 1 381          | 1 418          | 1 566          | 1 710          | 1 657          | 1 712          | 1 842          | 1 760          |
| Ecuador               | 400            | 408            | 489            | 459            | 428            | 455            | 471            | 415            | 390            |
| Fr Guiana             | 12             | 12             | 12             | 10             | 11             | 14             | 17             | 45             | 50             |
| Guyana                | 78             | 63             | 82             | 82             | 82             | 72             | 72             | 72             | 72             |
| Paraguay              | 139            | 146            | 170            | 141            | 133            | 141            | 256            | 273            | 242            |
| Peru                  | 510            | 450            | 489            | 440            | 453            | 532            | 585            | 593            | 586            |
| Suriname              | 3              | 6              | 6              | 6              | 6              | 6              | 6              | 6              | 6              |
| Uruguay               | 1 098          | 1 126          | 1 126          | 1 096          | 1 097          | 1 112          | 1 112          | 1 113          | 1 113          |

**Solid biofuels and renewable waste**  
**Biocombustibles solides et déchets renouvelables**  
**Biocombustibles sólidos y residuos renovables**

| CAP (MW)                 | 2014          | 2015          | 2016          | 2017          | 2018          | 2019           | 2020           | 2021           | 2022           | 2023           |
|--------------------------|---------------|---------------|---------------|---------------|---------------|----------------|----------------|----------------|----------------|----------------|
| <b>World</b>             | <b>72 599</b> | <b>77 854</b> | <b>85 740</b> | <b>90 801</b> | <b>96 881</b> | <b>101 451</b> | <b>108 576</b> | <b>115 218</b> | <b>120 697</b> | <b>124 691</b> |
| <b>Africa</b>            | <b>1 368</b>  | <b>1 434</b>  | <b>1 487</b>  | <b>1 600</b>  | <b>1 709</b>  | <b>1 709</b>   | <b>1 723</b>   | <b>1 777</b>   | <b>1 775</b>   | <b>1 750</b>   |
| Angola                   | 51            | 51            | 51            | 51            | 51            | 51             | 51             | 51             | 51             | 51             |
| Burundi                  | 4             | 4             | 4             | 4             | 4             | 4              | 4              | 4              | 4              | 4              |
| Chad                     | 2             | 2             | 2             | 2             | 2             | 2              | 2              | 2              | 2              | 2              |
| Congo DR                 | 0             | 0             | 0             | 2             | 3             | 3              | 3              | 3              | 3              | 3              |
| Congo Rep                | 12            | 12            | 12            | 12            | 12            | 12             | 12             | 12             | 12             | 12             |
| Egypt                    | 67            | 67            | 67            | 67            | 67            | 67             | 67             | 67             | 67             | 67             |
| Eswatini                 | 106           | 106           | 106           | 106           | 106           | 106            | 106            | 106            | 106            | 106            |
| Ethiopia                 | 71            | 119           | 145           | 205           | 290           | 290            | 290            | 335            | 335            | 310            |
| Ghana                    | 8             | 8             | 8             | 8             | 8             | 8              | 8              | 8              | 8              | 8              |
| Kenya                    | 56            | 56            | 82            | 83            | 86            | 86             | 97             | 97             | 97             | 97             |
| Liberia                  | 0             | 0             | 0             | 0             | 0             | 0              | 0              | 0              | 0              | 0              |
| Madagascar               | 0             | 0             | 0             | 0             | 0             | 0              | 0              | 0              | 0              | 0              |
| Malawi                   | 19            | 19            | 19            | 19            | 19            | 19             | 19             | 19             | 19             | 19             |
| Mali                     | 5             | 5             | 5             | 40            | 40            | 40             | 40             | 40             | 40             | 40             |
| Mauritius                | 77            | 87            | 87            | 87            | 87            | 87             | 87             | 87             | 87             | 87             |
| Mozambique               | 73            | 73            | 73            | 73            | 73            | 73             | 73             | 73             | 73             | 73             |
| Namibia                  | 0             | 0             | 0             | 0             | 0             | 0              | 0              | 0              | 0              | 0              |
| Nigeria                  | 8             | 8             | 9             | 9             | 9             | 9              | 13             | 21             | 21             | 21             |
| Reunion                  | 42            | 42            | 42            | 42            | 42            | 42             | 42             | 42             | 41             | 41             |
| Rwanda                   | 1             | 1             | 1             | 1             | 1             | 1              | 1              | 1              | 1              | 1              |
| Senegal                  | 25            | 25            | 25            | 25            | 25            | 25             | 25             | 25             | 25             | 25             |
| Sierra Leone             | 34            | 34            | 34            | 34            | 34            | 34             | 34             | 34             | 34             | 34             |
| South Africa             | 242           | 242           | 242           | 242           | 242           | 242            | 242            | 242            | 242            | 242            |
| Sudan                    | 199           | 199           | 199           | 199           | 199           | 199            | 199            | 199            | 199            | 199            |
| Tanzania                 | 70            | 67            | 67            | 70            | 70            | 70             | 70             | 70             | 70             | 70             |
| Uganda                   | 54            | 65            | 65            | 76            | 96            | 96             | 96             | 96             | 96             | 96             |
| Zambia                   | 43            | 43            | 43            | 43            | 43            | 43             | 43             | 43             | 43             | 43             |
| Zimbabwe                 | 100           | 100           | 100           | 100           | 100           | 100            | 100            | 100            | 100            | 100            |
| <b>Asia</b>              | <b>19 516</b> | <b>22 186</b> | <b>28 335</b> | <b>31 446</b> | <b>35 053</b> | <b>39 042</b>  | <b>45 691</b>  | <b>51 751</b>  | <b>55 709</b>  | <b>58 760</b>  |
| Bangladesh               | 40            | 40            | 40            | 40            | 40            | 40             | 40             | 40             | 40             | 40             |
| Cambodia                 | 59            | 56            | 54            | 74            | 74            | 74             | 67             | 65             | 74             | 74             |
| China                    | 6 343         | 7 646         | 8 920         | 10 780        | 12 605        | 15 738         | 20 965         | 26 235         | 28 160         | 29 765         |
| China HK SAR             |               |               |               | 28            | 28            | 28             | 28             | 28             | 28             | 28             |
| Chinese Taipei           | 396           | 393           | 393           | 393           | 395           | 391            | 399            | 407            | 407            | 397            |
| India                    | 5 023         | 5 469         | 8 885         | 9 405         | 10 124        | 10 212         | 10 518         | 10 578         | 10 655         | 10 738         |
| Indonesia                | 1 709         | 1 679         | 1 711         | 1 748         | 1 766         | 1 771          | 1 775          | 2 135          | 2 937          | 3 219          |
| Japan                    | 1 032         | 1 296         | 1 597         | 1 979         | 2 391         | 2 854          | 3 246          | 3 888          | 4 731          | 5 700          |
| Kazakhstan               |               |               |               |               |               |                |                |                |                |                |
| Korea Rep                | 124           | 255           | 1 256         | 1 853         | 1 899         | 2 056          | 2 538          | 2 102          | 2 102          | 2 113          |
| Lao PDR                  | 40            | 40            | 40            | 40            | 123           | 123            | 123            | 123            | 123            | 123            |
| Malaysia                 | 1 413         | 1 535         | 1 468         | 738           | 740           | 780            | 780            | 780            | 780            | 780            |
| Maldives                 |               |               |               |               | 0             | 0              | 0              | 0              | 0              | 0              |
| Myanmar                  | 51            | 46            | 48            | 51            | 55            | 57             | 57             | 57             | 57             | 57             |
| Nepal                    | 7             | 7             | 7             | 7             | 7             | 7              | 6              | 6              | 6              | 6              |
| Pakistan                 | 316           | 324           | 365           | 365           | 423           | 423            | 423            | 423            | 423            | 423            |
| Philippines              | 112           | 202           | 219           | 235           | 287           | 339            | 457            | 463            | 578            | 559            |
| Singapore                | 154           | 168           | 169           | 170           | 169           | 166            | 164            | 176            | 234            | 246            |
| Sri Lanka                | 20            | 20            | 24            | 26            | 27            | 40             | 45             | 45             | 45             | 45             |
| Thailand                 | 2 485         | 2 793         | 2 887         | 3 253         | 3 532         | 3 567          | 3 684          | 3 841          | 3 951          | 4 053          |
| Viet Nam                 | 193           | 218           | 252           | 263           | 368           | 376            | 376            | 360            | 379            | 394            |
| <b>C America + Carib</b> | <b>1 742</b>  | <b>2 029</b>  | <b>2 250</b>  | <b>2 398</b>  | <b>2 559</b>  | <b>2 487</b>   | <b>2 610</b>   | <b>2 449</b>   | <b>2 394</b>   | <b>2 426</b>   |
| Aruba                    | 2             | 2             | 2             | 2             |               |                |                |                |                |                |
| Belize                   | 28            | 28            | 28            | 36            | 36            | 36             | 36             | 36             | 36             | 36             |
| Costa Rica               | 42            | 45            | 45            | 45            | 57            | 76             | 76             | 76             | 76             | 76             |
| Cuba                     | 408           | 440           | 405           | 442           | 464           | 369            | 476            | 480            | 424            | 424            |
| Dominican Rep            | 18            | 18            | 18            | 79            | 79            | 79             | 79             | 79             | 79             | 79             |
| El Salvador              | 130           | 195           | 252           | 264           | 299           | 294            | 294            | 295            | 295            | 295            |
| Guadeloupe               | 30            | 30            | 30            | 30            | 30            | 30             | 47             | 47             | 47             | 47             |
| Guatemala                | 719           | 876           | 990           | 1 022         | 1 075         | 1 030          | 1 030          | 864            | 864            | 864            |
| Honduras                 | 137           | 168           | 209           | 209           | 209           | 221            | 221            | 221            | 221            | 221            |
| Jamaica                  | 32            | 32            | 32            | 32            | 32            | 32             | 32             | 32             | 32             | 32             |
| Martinique               | 2             | 2             | 2             | 2             | 42            | 42             | 42             | 42             | 42             | 42             |
| Nicaragua                | 134           | 134           | 177           | 177           | 177           | 218            | 218            | 218            | 218            | 218            |
| Panama                   | 60            | 60            | 60            | 60            | 60            | 60             | 60             | 60             | 60             | 92             |
| St Lucia                 |               |               | 0             | 0             | 0             | 0              | 0              | 0              | 0              | 0              |
| <b>Eurasia</b>           | <b>1 417</b>  | <b>1 419</b>  | <b>1 462</b>  | <b>1 498</b>  | <b>1 547</b>  | <b>1 633</b>   | <b>1 750</b>   | <b>1 962</b>   | <b>2 087</b>   | <b>2 080</b>   |
| Azerbaijan               | 37            | 37            | 37            | 42            | 44            | 44             | 44             | 44             | 44             | 37             |
| Russian Fed              | 1 370         | 1 370         | 1 370         | 1 373         | 1 373         | 1 373          | 1 373          | 1 373          | 1 373          | 1 373          |
| Türkiye                  | 10            | 12            | 55            | 83            | 130           | 216            | 334            | 545            | 670            | 670            |

**Solid biofuels and renewable waste**  
**Biocombustibles solides et déchets renouvelables**  
**Biocombustibles sólidos y residuos renovables**

| CAP (MW)              | 2014          | 2015          | 2016          | 2017          | 2018          | 2019          | 2020          | 2021          | 2022          | 2023          |
|-----------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| <b>Europe</b>         | <b>20 654</b> | <b>21 564</b> | <b>22 159</b> | <b>23 157</b> | <b>25 281</b> | <b>25 832</b> | <b>25 834</b> | <b>25 975</b> | <b>26 687</b> | <b>26 930</b> |
| Albania               |               |               |               | 1             | 1             | 1             | 1             | 1             | 1             | 1             |
| Andorra               | 5             | 5             | 5             | 5             | 5             | 5             | 5             | 5             | 5             | 5             |
| Austria               | 1 221         | 1 202         | 1 188         | 1 108         | 1 094         | 1 085         | 1 086         | 1 005         | 1 029         | 1 029         |
| Belarus               | 13            | 13            | 13            | 13            | 16            | 16            | 86            | 83            | 101           | 101           |
| Belgium               | 681           | 716           | 691           | 685           | 652           | 665           | 700           | 594           | 635           | 636           |
| Bosnia Herzg          |               |               |               | 0             | 1             | 1             | 1             | 9             | 9             | 9             |
| Bulgaria              | 30            | 34            | 19            | 23            | 33            | 24            | 15            | 14            | 15            | 15            |
| Croatia               | 8             | 25            | 26            | 42            | 65            | 76            | 80            | 95            | 101           | 101           |
| Czechia               | 378           | 403           | 404           | 430           | 413           | 462           | 480           | 484           | 483           | 483           |
| Denmark               | 1 152         | 1 139         | 1 198         | 1 683         | 1 666         | 1 862         | 1 955         | 2 023         | 1 882         | 1 882         |
| Estonia               | 270           | 270           | 270           | 270           | 250           | 265           | 285           | 285           | 285           | 283           |
| Finland               | 1 877         | 1 885         | 1 895         | 2 114         | 2 114         | 2 111         | 2 590         | 2 595         | 3 081         | 2 943         |
| France                | 1107          | 1 130         | 1 231         | 1 248         | 1 435         | 1 482         | 1 364         | 1 465         | 1 476         | 1 596         |
| Germany               | 2 533         | 2 554         | 2 579         | 2 605         | 2 648         | 2 682         | 2 595         | 2 628         | 2 615         | 2 635         |
| Greece                |               | 2             | 2             | 3             | 12            | 13            | 14            | 16            | 16            | 16            |
| Hungary               | 486           | 447           | 351           | 409           | 437           | 425           | 424           | 466           | 449           | 450           |
| Ireland               | 16            | 16            | 16            | 47            | 47            | 48            | 48            | 48            | 48            | 48            |
| Italy                 | 1 033         | 1 031         | 1 094         | 1 092         | 1 145         | 1 124         | 1 128         | 1 120         | 1 097         | 1 097         |
| Latvia                | 63            | 66            | 81            | 94            | 97            | 97            | 96            | 95            | 90            | 79            |
| Lithuania             | 51            | 50            | 47            | 54            | 69            | 70            | 80            | 79            | 81            | 214           |
| Luxembourg            | 12            | 13            | 13            | 23            | 24            | 44            | 44            | 44            | 45            | 81            |
| Netherlands           | 515           | 549           | 548           | 561           | 620           | 617           | 661           | 678           | 678           | 678           |
| North Macedonia       |               |               |               |               | 1             | 2             | 2             | 3             | 3             | 3             |
| Norway                | 123           | 123           | 77            | 77            | 77            | 74            | 66            | 70            | 70            | 72            |
| Poland                | 629           | 745           | 749           | 738           | 778           | 777           | 784           | 848           | 939           | 939           |
| Portugal              | 495           | 511           | 519           | 512           | 577           | 630           | 644           | 644           | 634           | 633           |
| Romania               | 79            | 104           | 107           | 119           | 119           | 119           | 136           | 109           | 161           | 161           |
| Serbia                | 1             | 1             | 1             | 2             | 2             | 2             | 2             | 2             | 2             | 2             |
| Slovakia              | 159           | 151           | 160           | 155           | 154           | 144           | 143           | 169           | 187           | 187           |
| Slovenia              | 30            | 30            | 30            | 33            | 32            | 34            | 35            | 36            | 36            | 65            |
| Spain                 | 790           | 789           | 789           | 793           | 793           | 839           | 989           | 1 001         | 1 001         | 1 001         |
| Sweden                | 3 959         | 4 138         | 4 333         | 4 273         | 4 484         | 4 402         | 3 565         | 3 479         | 3 610         | 3 610         |
| Switzerland           | 197           | 211           | 212           | 212           | 212           | 211           | 211           | 203           | 203           | 203           |
| UK                    | 2 709         | 3 180         | 3 477         | 3 695         | 5 161         | 5 339         | 5 411         | 5 428         | 5 467         | 5 493         |
| Ukraine               | 35            | 35            | 39            | 39            | 52            | 87            | 109           | 152           | 152           | 178           |
| <b>European Union</b> | <b>17 649</b> | <b>18 073</b> | <b>18 413</b> | <b>19 189</b> | <b>19 871</b> | <b>20 214</b> | <b>20 075</b> | <b>20 154</b> | <b>20 809</b> | <b>20 997</b> |
| <b>Middle East</b>    | <b>18</b>     | <b>18</b>     | <b>18</b>     | <b>18</b>     | <b>18</b>     | <b>18</b>     | <b>15</b>     | <b>15</b>     | <b>23</b>     | <b>33</b>     |
| Israel                | 3             | 3             | 3             | 3             | 3             | 3             | 3             | 15            | 15            | 15            |
| Qatar                 | 15            | 15            | 15            | 15            | 15            | 15            | 15            | 8             | 8             | 18            |
| United Arab Em        |               |               |               |               |               |               |               | 0             | 0             | 0             |
| Yemen                 |               |               |               |               |               |               |               |               |               |               |
| <b>N America</b>      | <b>12 851</b> | <b>13 526</b> | <b>13 636</b> | <b>13 619</b> | <b>13 396</b> | <b>12 914</b> | <b>12 867</b> | <b>12 453</b> | <b>12 308</b> | <b>12 220</b> |
| Canada                | 2 380         | 2 359         | 2 428         | 2 509         | 2 515         | 2 408         | 2 408         | 2 408         | 2 416         | 2 416         |
| Greenland             | 1             | 1             | 1             | 1             | 1             | 1             | 1             | 1             | 1             | 1             |
| Mexico                | 569           | 685           | 796           | 816           | 816           | 816           | 816           | 816           | 816           | 817           |
| USA                   | 9 902         | 10 482        | 10 411        | 10 294        | 10 065        | 9 690         | 9 642         | 9 229         | 9 075         | 8 986         |
| <b>Oceania</b>        | <b>754</b>    | <b>759</b>    | <b>835</b>    | <b>852</b>    | <b>852</b>    | <b>852</b>    | <b>846</b>    | <b>854</b>    | <b>854</b>    | <b>855</b>    |
| Australia             | 598           | 598           | 674           | 674           | 674           | 674           | 674           | 674           | 674           | 674           |
| Fiji                  | 42            | 47            | 47            | 59            | 59            | 59            | 59            | 66            | 66            | 66            |
| New Zealand           | 99            | 99            | 99            | 104           | 104           | 104           | 98            | 98            | 98            | 99            |
| Papua N Guin          | 15            | 15            | 15            | 15            | 15            | 15            | 15            | 15            | 15            | 15            |
| Samoa                 |               |               |               |               |               |               | 1             | 1             | 1             | 1             |
| Solomon Is            | 1             | 1             | 1             | 1             | 1             | 1             | 1             | 1             | 1             | 1             |
| <b>S America</b>      | <b>14 279</b> | <b>14 919</b> | <b>15 558</b> | <b>16 214</b> | <b>16 468</b> | <b>16 965</b> | <b>17 240</b> | <b>17 984</b> | <b>18 860</b> | <b>19 637</b> |
| Argentina             | 172           | 201           | 201           | 204           | 218           | 220           | 276           | 296           | 296           | 301           |
| Bolivia               | 52            | 116           | 131           | 115           | 139           | 144           | 144           | 143           | 192           | 251           |
| Brazil                | 12 145        | 13 088        | 13 722        | 14 305        | 14 511        | 14 979        | 15 226        | 15 894        | 16 704        | 17 070        |
| Chile                 | 884           | 417           | 410           | 444           | 444           | 442           | 410           | 430           | 429           | 462           |
| Colombia              | 215           | 237           | 253           | 306           | 316           | 316           | 319           | 342           | 343           | 343           |
| Ecuador               | 144           | 144           | 144           | 144           | 144           | 144           | 144           | 144           | 144           | 144           |
| Fr Guiana             | 2             | 2             | 2             | 2             | 2             | 5             | 5             | 5             | 5             | 5             |
| Guyana                | 51            | 51            | 42            | 42            | 42            | 42            | 42            | 42            | 42            | 42            |
| Paraguay              | 39            | 39            | 39            | 39            | 39            | 39            | 39            | 39            | 39            | 39            |
| Peru                  | 149           | 187           | 176           | 186           | 186           | 208           | 208           | 177           | 192           | 192           |
| Suriname              |               |               | 2             | 2             | 2             | 2             | 2             | 2             | 2             | 2             |
| Uruguay               | 416           | 426           | 426           | 415           | 415           | 415           | 415           | 415           | 415           | 729           |
| Venezuela             | 10            | 10            | 10            | 10            | 10            | 10            | 10            | 56            | 56            | 56            |

**Solid biofuels and renewable waste**  
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**Biocombustibles sólidos y residuos renovables**

| PROD (GWh)               | 2014           | 2015           | 2016           | 2017           | 2018           | 2019           | 2020           | 2021           | 2022           |
|--------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| <b>World</b>             | <b>341 336</b> | <b>362 504</b> | <b>375 531</b> | <b>396 322</b> | <b>417 202</b> | <b>444 212</b> | <b>466 149</b> | <b>506 834</b> | <b>519 658</b> |
| <b>Africa</b>            | <b>2 860</b>   | <b>2 979</b>   | <b>3 186</b>   | <b>2 994</b>   | <b>3 189</b>   | <b>3 205</b>   | <b>2 940</b>   | <b>2 981</b>   | <b>3 065</b>   |
| Angola                   | 36             | 42             | 155            | 200            | 200            | 200            | 200            | 200            | 200            |
| Burundi                  | 6              | 6              | 7              | 7              | 6              | 5              | 6              | 6              | 6              |
| Chad                     | 9              | 9              | 9              | 9              | 8              | 7              | 8              | 8              | 9              |
| Congo DR                 | 0              | 0              | 0              | 6              | 8              | 8              | 8              | 8              | 8              |
| Congo Rep                | 31             | 31             | 32             | 32             | 32             | 32             | 32             | 32             | 32             |
| Egypt                    | 321            | 318            | 311            | 308            | 316            | 326            | 206            | 247            | 320            |
| Eswatini                 | 168            | 174            | 181            | 180            | 188            | 189            | 191            | 203            | 187            |
| Ethiopia                 | 31             | 28             | 28             | 23             | 26             | 30             | 27             | 16             | 8              |
| Ghana                    | 19             | 19             | 19             | 19             | 19             | 19             | 19             | 19             | 19             |
| Kenya                    | 199            | 202            | 194            | 151            | 163            | 144            | 194            | 194            | 194            |
| Liberia                  | 0              | 0              | 0              | 0              | 0              | 0              | 0              | 0              | 0              |
| Madagascar               | 1              | 1              | 1              | 1              | 1              | 1              | 1              | 1              | 1              |
| Malawi                   | 52             | 52             | 48             | 44             | 47             | 46             | 49             | 51             | 51             |
| Mali                     | 29             | 29             | 32             | 33             | 34             | 36             | 36             | 36             | 36             |
| Mauritius                | 456            | 510            | 497            | 463            | 437            | 440            | 384            | 350            | 283            |
| Mozambique               | 62             | 124            | 129            | 137            | 105            | 107            | 105            | 78             | 65             |
| Namibia                  | 0              | 0              | 0              | 0              | 0              | 0              | 0              | 0              | 0              |
| Nigeria                  | 19             | 19             | 22             | 28             | 30             | 27             | 41             | 61             | 61             |
| Reunion                  | 251            | 270            | 244            | 261            | 196            | 240            | 221            | 217            | 232            |
| Rwanda                   | 2              | 2              | 2              | 2              | 2              | 2              | 2              | 2              | 2              |
| Senegal                  | 41             | 52             | 58             | 65             | 66             | 67             | 66             | 67             | 67             |
| Sierra Leone             | 4              | 9              | 10             | 10             | 9              | 9              | 9              | 9              | 10             |
| South Africa             | 355            | 297            | 301            | 348            | 386            | 385            | 364            | 360            | 360            |
| Sudan                    | 116            | 118            | 120            | 130            | 122            | 109            | 103            | 107            | 107            |
| Tanzania                 | 126            | 133            | 134            | 139            | 141            | 151            | 147            | 147            | 148            |
| Uganda                   | 231            | 276            | 282            | 256            | 317            | 307            | 295            | 374            | 471            |
| Zambia                   | 71             | 64             | 63             | 67             | 71             | 72             | 74             | 79             | 79             |
| Zimbabwe                 | 221            | 195            | 306            | 76             | 258            | 248            | 153            | 110            | 113            |
| <b>Asia</b>              | <b>103 457</b> | <b>112 949</b> | <b>119 346</b> | <b>135 053</b> | <b>149 041</b> | <b>171 930</b> | <b>188 946</b> | <b>220 706</b> | <b>245 499</b> |
| Bangladesh               | 43             | 28             | 21             | 41             | 29             | 33             | 33             | 30             | 10             |
| Cambodia                 | 73             | 96             | 94             | 100            | 104            | 125            | 96             | 84             | 47             |
| China                    | 32 982         | 39 048         | 47 541         | 57 567         | 64 097         | 78 450         | 94 100         | 113 100        | 124 300        |
| China HK SAR             | 43             | 29             | 50             | 47             | 46             | 46             | 47             | 52             | 52             |
| Chinese Taipei           | 1 913          | 1 903          | 1 859          | 1 821          | 1 945          | 1 971          | 1 928          | 1 982          | 1 921          |
| India                    | 33 220         | 28 844         | 18 189         | 16 635         | 18 697         | 20 881         | 20 630         | 22 221         | 24 519         |
| Indonesia                | 9 149          | 9 616          | 10 047         | 11 498         | 11 855         | 11 559         | 11 564         | 14 031         | 19 577         |
| Japan                    | 15 246         | 15 838         | 17 325         | 19 908         | 20 994         | 25 435         | 27 735         | 34 127         | 36 690         |
| Kazakhstan               | 12             | 12             | 11             | 17             | 26             | 26             | 27             | 27             | 27             |
| Korea Rep                | 410            | 862            | 3 858          | 4 290          | 5 338          | 5 578          | 5 697          | 5 439          | 7 018          |
| Lao PDR                  | 53             | 54             | 55             | 73             | 207            | 364            | 379            | 354            | 404            |
| Malaysia                 | 350            | 362            | 92             | 181            | 1467           | 1 783          | 2 480          | 2 480          | 2 481          |
| Maldives                 |                |                |                |                | 0              | 0              | 0              | 0              | 0              |
| Myanmar                  | 223            | 204            | 210            | 229            | 249            | 258            | 259            | 254            | 261            |
| Nepal                    | 9              | 10             | 10             | 9              | 12             | 12             | 6              | 7              | 7              |
| Pakistan                 | 1 634          | 1 998          | 2 712          | 3 269          | 2 894          | 2 728          | 2 820          | 3 183          | 3 183          |
| Philippines              | 179            | 351            | 710            | 997            | 1 089          | 1 024          | 1 245          | 1 429          | 1 309          |
| Singapore                | 726            | 779            | 774            | 757            | 714            | 677            | 610            | 642            | 971            |
| Sri Lanka                | 41             | 57             | 72             | 67             | 87             | 118            | 99             | 128            | 82             |
| Thailand                 | 6 714          | 12 453         | 15 354         | 17 136         | 18 641         | 20 344         | 18 767         | 20 765         | 22 109         |
| Viet Nam                 | 435            | 405            | 365            | 408            | 550            | 519            | 424            | 373            | 561            |
| <b>C America + Carib</b> | <b>4 672</b>   | <b>5 592</b>   | <b>6 185</b>   | <b>5 873</b>   | <b>6 626</b>   | <b>7 793</b>   | <b>6 555</b>   | <b>6 963</b>   | <b>6 227</b>   |
| Aruba                    |                |                | 5              |                |                |                |                |                |                |
| Belize                   | 97             | 121            | 115            | 120            | 137            | 163            | 270            | 133            | 174            |
| Costa Rica               | 89             | 94             | 86             | 99             | 88             | 84             | 70             | 79             | 67             |
| Cuba                     | 637            | 704            | 688            | 624            | 445            | 520            | 548            | 434            | 278            |
| Dominican Rep            | 96             | 96             | 96             | 356            | 445            | 451            | 409            | 443            | 426            |
| El Salvador              | 405            | 521            | 682            | 674            | 718            | 797            | 786            | 881            | 790            |
| Guadeloupe               | 60             | 56             | 50             | 63             | 56             | 47             | 60             | 230            | 222            |
| Guatemala                | 2 159          | 2 685          | 2 867          | 2 163          | 2 923          | 3 436          | 2 486          | 2 576          | 2 075          |
| Honduras                 | 331            | 537            | 746            | 797            | 719            | 961            | 708            | 799            | 797            |
| Jamaica                  | 33             | 30             | 24             | 24             | 13             | 21             | 17             | 17             | 10             |
| Martinique               | 11             | 13             | 14             | 12             | 89             | 249            | 226            | 240            | 263            |
| Nicaragua                | 492            | 455            | 533            | 666            | 702            | 841            | 733            | 899            | 890            |
| Panama                   | 262            | 279            | 279            | 272            | 291            | 223            | 241            | 232            | 234            |
| St Lucia                 |                | 0              | 0              | 0              | 0              | 0              | 0              | 0              | 0              |
| <b>Eurasia</b>           | <b>240</b>     | <b>246</b>     | <b>281</b>     | <b>568</b>     | <b>721</b>     | <b>1 190</b>   | <b>1 950</b>   | <b>2 900</b>   | <b>4 024</b>   |
| Azerbaijan               | 174            | 182            | 175            | 170            | 162            | 196            | 201            | 193            | 205            |
| Russian Fed              | 32             | 32             | 32             | 84             | 73             | 109            | 393            | 393            | 393            |
| Türkiye                  | 34             | 32             | 74             | 313            | 486            | 885            | 1 357          | 2 314          | 3 425          |

**Solid biofuels and renewable waste**  
**Biocombustibles solides et déchets renouvelables**  
**Biocombustibles sólidos y residuos renovables**

| PROD (GWh)            | 2014           | 2015           | 2016           | 2017           | 2018           | 2019           | 2020           | 2021           | 2022           |
|-----------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| <b>Europe</b>         | <b>106 155</b> | <b>113 905</b> | <b>114 888</b> | <b>119 034</b> | <b>124 770</b> | <b>131 575</b> | <b>136 353</b> | <b>147 208</b> | <b>138 070</b> |
| Andorra               | 13             | 14             | 14             | 17             | 21             | 22             | 20             | 17             | 19             |
| Austria               | 3 934          | 4 014          | 4 114          | 4 250          | 4 301          | 4 043          | 3 962          | 3 878          | 4 097          |
| Belarus               | 87             | 104            | 112            | 117            | 131            | 263            | 373            | 337            | 322            |
| Belgium               | 3 464          | 4 423          | 4 351          | 4 738          | 4 400          | 4 155          | 4 229          | 3 700          | 3 852          |
| Bosnia Herzg          |                |                |                | 1              | 1              | 1              | 5              | 36             | 24             |
| Bulgaria              | 138            | 152            | 163            | 180            | 1 361          | 1 590          | 1 474          | 2 373          | 2 053          |
| Croatia               | 50             | 89             | 194            | 216            | 313            | 477            | 559            | 660            | 720            |
| Czechia               | 2 080          | 2 179          | 2 166          | 2 328          | 2 221          | 2 504          | 2 618          | 2 792          | 2 789          |
| Denmark               | 3 844          | 3 715          | 4 344          | 5 681          | 5 277          | 5 317          | 5 246          | 8 104          | 6 699          |
| Estonia               | 731            | 768            | 904            | 1 053          | 1 269          | 1 324          | 1 821          | 1 752          | 1 564          |
| Finland               | 11 409         | 11 060         | 11 121         | 11 446         | 12 483         | 12 927         | 11 273         | 13 249         | 12 496         |
| France                | 4 391          | 4 691          | 5 530          | 5 667          | 6 008          | 6 054          | 5 992          | 6 548          | 6 788          |
| Germany               | 16 868         | 16 802         | 16 728         | 16 600         | 17 231         | 16 845         | 17 126         | 16 530         | 15 816         |
| Greece                |                | 1              | 5              | 10             | 12             | 25             | 50             | 42             | 52             |
| Hungary               | 1 839          | 1 868          | 1 738          | 1 804          | 1 960          | 1 906          | 1 831          | 1 936          | 1 823          |
| Ireland               | 337            | 274            | 471            | 532            | 664            | 667            | 756            | 822            | 855            |
| Italy                 | 6 194          | 6 291          | 6 540          | 6 615          | 6 562          | 6 609          | 6 800          | 6 838          | 6 684          |
| Latvia                | 319            | 378            | 427            | 525            | 570            | 575            | 520            | 570            | 552            |
| Lithuania             | 322            | 360            | 316            | 376            | 403            | 379            | 445            | 529            | 550            |
| Luxembourg            | 55             | 64             | 67             | 99             | 142            | 207            | 309            | 328            | 310            |
| Netherlands           | 4 007          | 3 898          | 3 916          | 3 680          | 3 662          | 4 927          | 7 969          | 10 050         | 8 944          |
| Norway                | 227            | 232            | 220            | 238            | 187            | 238            | 234            | 214            | 237            |
| Poland                | 9 161          | 9 026          | 6 925          | 5 389          | 5 418          | 6 546          | 7 115          | 6 752          | 6 236          |
| Portugal              | 2 770          | 2 810          | 2 786          | 2 934          | 2 884          | 3 099          | 3 526          | 3 735          | 3 853          |
| Romania               | 454            | 463            | 466            | 458            | 367            | 450            | 494            | 580            | 557            |
| Serbia                | 3              | 4              | 3              | 3              | 4              | 11             | 19             | 20             | 21             |
| Slovakia              | 938            | 1 121          | 1 155          | 1 102          | 1 086          | 1 159          | 1 163          | 1 357          | 1 099          |
| Slovenia              | 125            | 131            | 136            | 155            | 142            | 151            | 155            | 169            | 162            |
| Spain                 | 4 507          | 4 782          | 4 783          | 5 137          | 4 976          | 4 655          | 5 244          | 5 950          | 5 796          |
| Sweden                | 10 633         | 10 726         | 11 430         | 12 028         | 11 851         | 12 987         | 11 147         | 12 987         | 13 018         |
| Switzerland           | 1 400          | 1 321          | 1 429          | 1 526          | 1 476          | 1 506          | 1 602          | 1 661          | 1 669          |
| UK                    | 15 724         | 22 010         | 22 254         | 24 011         | 27 262         | 29 761         | 31 992         | 32 410         | 28 320         |
| Ukraine               | 130            | 135            | 80             | 116            | 125            | 195            | 284            | 284            | 98             |
| <b>European Union</b> | <b>88 905</b>  | <b>90 437</b>  | <b>91 094</b>  | <b>93 351</b>  | <b>95 916</b>  | <b>100 127</b> | <b>102 347</b> | <b>112 962</b> | <b>108 128</b> |
| <b>Middle East</b>    | <b>88</b>      | <b>102</b>     | <b>105</b>     | <b>110</b>     | <b>114</b>     | <b>93</b>      | <b>106</b>     | <b>106</b>     | <b>106</b>     |
| Israel                | 8              | 8              | 8              | 8              | 8              |                |                |                |                |
| Qatar                 | 80             | 94             | 97             | 102            | 106            | 93             | 106            | 106            | 106            |
| <b>N America</b>      | <b>66 015</b>  | <b>65 546</b>  | <b>67 606</b>  | <b>67 258</b>  | <b>66 542</b>  | <b>62 075</b>  | <b>58 806</b>  | <b>58 691</b>  | <b>56 672</b>  |
| Canada                | 7 789          | 8 182          | 10 949         | 10 491         | 10 172         | 9 967          | 9 239          | 9 273          | 8 277          |
| Greenland             | 13             | 14             | 13             | 13             | 14             | 15             | 14             | 14             | 12             |
| Mexico                | 1 189          | 1 180          | 1 303          | 1 837          | 2 081          | 1 916          | 1 800          | 1 468          | 1 793          |
| USA                   | 57 024         | 56 170         | 55 341         | 54 917         | 54 275         | 50 177         | 47 753         | 47 936         | 46 590         |
| <b>Oceania</b>        | <b>2 523</b>   | <b>2 749</b>   | <b>3 037</b>   | <b>2 900</b>   | <b>2 851</b>   | <b>2 770</b>   | <b>2 613</b>   | <b>2 624</b>   | <b>2 419</b>   |
| Australia             | 1 876          | 2 117          | 2 451          | 2 308          | 2 264          | 2 164          | 1 998          | 1 993          | 1 817          |
| Fiji                  | 81             | 70             | 47             | 66             | 84             | 94             | 111            | 97             | 115            |
| New Zealand           | 559            | 555            | 531            | 519            | 495            | 505            | 492            | 517            | 470            |
| Papua N Guin          | 4              | 4              | 4              | 5              | 5              | 4              | 4              | 4              | 4              |
| Samoa                 |                |                |                |                |                | 5              | 10             | 10             | 10             |
| Solomon Is            | 3              | 3              | 3              | 3              | 3              | 3              | 3              | 3              | 3              |
| <b>S America</b>      | <b>55 327</b>  | <b>58 435</b>  | <b>60 898</b>  | <b>62 533</b>  | <b>63 348</b>  | <b>63 582</b>  | <b>67 879</b>  | <b>64 654</b>  | <b>63 575</b>  |
| Argentina             | 1 053          | 1 280          | 1 325          | 1 495          | 1 385          | 1 565          | 2 179          | 2 124          | 2 093          |
| Bolivia               | 126            | 202            | 176            | 163            | 168            | 217            | 327            | 455            | 528            |
| Brazil                | 45 363         | 47 810         | 49 737         | 51 165         | 52 363         | 52 627         | 56 105         | 52 318         | 52 350         |
| Chile                 | 5 287          | 5 603          | 5 945          | 6 003          | 5 621          | 5 325          | 5 169          | 5 542          | 4 528          |
| Colombia              | 1 297          | 1 381          | 1 418          | 1 556          | 1 706          | 1 657          | 1 712          | 1 840          | 1 759          |
| Ecuador               | 399            | 408            | 477            | 431            | 382            | 414            | 427            | 373            | 348            |
| Fr Guiana             | 12             | 12             | 12             | 10             | 11             | 14             | 17             | 45             | 50             |
| Guyana                | 78             | 63             | 82             | 82             | 82             | 72             | 72             | 72             | 72             |
| Paraguay              | 137            | 144            | 168            | 139            | 131            | 130            | 243            | 260            | 229            |
| Peru                  | 480            | 409            | 433            | 393            | 403            | 467            | 533            | 528            | 522            |
| Suriname              |                | 3              | 6              | 6              | 6              | 6              | 6              | 6              | 6              |
| Uruguay               | 1 094          | 1 120          | 1 120          | 1 090          | 1 090          | 1 090          | 1 090          | 1 090          | 1 090          |

# Renewable municipal waste

## Déchets municipaux renouvelables

## Residuos municipales renovables

| CAP (MW)                 | 2014         | 2015         | 2016         | 2017         | 2018         | 2019         | 2020         | 2021          | 2022          | 2023          |
|--------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|
| World                    | 8 805        | 9 733        | 10 541       | 11 451       | 12 627       | 14 130       | 15 938       | 18 916        | 20 284        | 21 333        |
| <b>Africa</b>            |              |              |              |              | 25           | 25           | 25           | 25            | 25            | 25            |
| Ethiopia                 |              |              |              |              | 25           | 25 e         | 25           | 25            | 25 o          |               |
| <b>Asia</b>              | <b>3 446</b> | <b>3 995</b> | <b>4 534</b> | <b>5 329</b> | <b>6 377</b> | <b>7 834</b> | <b>9 607</b> | <b>12 672</b> | <b>14 075</b> | <b>15 056</b> |
| China                    | 1 893        | 2 342        | 2 870        | 3 640        | 4 575        | 6 009        | 7 665        | 10 645        | 11 930        | 12 885        |
| Chinese Taipei           | 315 o        | 315 o        | 315 o        | 315 o        | 316 o        | 316 o        | 316 o        | 316 o         | 316 o         | 316 o         |
| India                    | 124 o        | 137 o        | 139 o        | 146 o        | 159 o        | 165 o        | 188 o        | 217 o         | 260 o         | 291 o         |
| Indonesia                | 18 o         | 8 o          | 8 o          | 8 o          | 8 o          | 8 o          | 8 o          | 14 o          | 12 o          | 18 o          |
| Japan                    | 876          | 900          | 919          | 935          | 958          | 975          | 1027         | 1050          | 1057          | 1034 o        |
| Korea Rep                | 50           | 95           | 77           | 54           | 64           | 64           | 91           | 91            | 91            | 92 o          |
| Malaysia                 | 9            | 7 o          | 7 o          | 7 o          | 7 o          | 0 o          | 0 e          | 0 e           | 0 e           | 0 e           |
| Maldives                 |              |              |              |              |              | 0 e          | 0 e          | 0 e           | 0 e           | 0 e           |
| Myanmar                  |              |              |              | 0 u          | 0 e          | 0 e          | 0 e          | 0 e           | 0 e           | 0             |
| Singapore                | 128 o         | 197 o         | 197 o         |
| Sri Lanka                |              |              |              |              |              | 5 o          | 5 u          | 5 o           | 5 o           | 5 o           |
| Thailand                 | 33 o         | 66 o         | 73 o         | 96 o         | 159 o        | 157 o        | 167 o        | 194 o         | 186 o         | 181 o         |
| Viet Nam                 |              |              |              | 1 u          | 5 u          | 5 u          | 5 u          | 5 u           | 15 u          | 30 u          |
| <b>C America + Carib</b> | <b>4</b>     | <b>4</b>     | <b>4</b>     | <b>4</b>     | <b>2</b>     | <b>2</b>     | <b>2</b>     | <b>2</b>      | <b>2</b>      | <b>2</b>      |
| Aruba                    | 2            | 2            | 2            | 2            | 2 o          | 2 o          | 2 o          | 2 o           | 2 o           | 2 e           |
| Martinique               | 2 o          | 2 o          | 2 o          | 2 o          |              |              |              |               |               |               |
| <b>Eurasia</b>           | <b>37</b>    | <b>37</b>    | <b>37</b>    | <b>42</b>    | <b>45</b>    | <b>46</b>    | <b>46</b>    | <b>98</b>     | <b>98</b>     | <b>91</b>     |
| Azerbaijan               | 37           | 37           | 37 e         | 42           | 44 o         | 44 e         | 44           | 44 e          | 44            | 37 u          |
| Türkiye                  |              |              |              | 1            | 2            | 2            | 2            | 54            | 54            | 54 o          |
| <b>Europe</b>            | <b>4 146</b> | <b>4 513</b> | <b>4 777</b> | <b>4 888</b> | <b>4 999</b> | <b>5 093</b> | <b>5 129</b> | <b>4 977</b>  | <b>4 962</b>  | <b>5 049</b>  |
| Albania                  |              |              |              | 1 u          | 1 u          | 1 u          | 1 e          | 1 e           | 1             | 1 o           |
| Andorra                  | 5 o          | 5 o          | 5 o          | 5 o          | 5 o          | 5 o          | 5 e          | 5 e           | 5             | 5 e           |
| Austria                  | 262          | 263          | 271          | 271          | 270          | 272          | 270          | 240           | 245           | 245 o         |
| Belgium                  | 124          | 124          | 125          | 125          | 125          | 126          | 136          | 146           | 147           | 147 o         |
| Czechia                  | 23           | 23           | 28           | 28 e         | 28 o         | 28           | 28 e         | 28 e          | 28            | 28 u          |
| Denmark                  | 163          | 166          | 166          | 182          | 181          | 181          | 178          | 176           | 174           | 174 e         |
| Estonia                  | 105          | 105          | 105          | 105 e        | 85           | 85           | 85 o         | 85            | 85            | 85 o          |
| Finland                  | 126 e        | 134 e        | 148 e        | 148 e        | 148 o        | 148          | 148          | 197           | 246           | 246 o         |
| France                   | 643          | 602          | 619          | 624          | 607          | 608          | 555          | 566           | 565           | 625 o         |
| Germany                  | 944          | 962          | 979          | 1 004        | 1 063        | 1 084        | 1 024        | 1 041         | 1 023         | 1 023 e       |
| Hungary                  | 19           | 25           | 29           | 23           | 23           | 23           | 27           | 28            | 25            | 25 o          |
| Ireland                  | 11           | 11           | 11           | 41           | 41           | 41           | 41 o         | 41 o          | 41            | 41 e          |
| Italy                    | 413          | 415          | 409          | 408          | 412          | 396          | 402          | 418           | 396           | 396 o         |
| Lithuania                | 5            | 5            | 8            | 9            | 7            | 7            | 17           | 21            | 19            | 18 o          |
| Luxembourg               | 9            | 9            | 9            | 9            | 9 e          | 9 e          | 9            | 9             | 9             | 9 o           |
| Netherlands              | 325          | 338          | 338          | 334          | 389          | 389          | 390          | 394           | 394           | 394 e         |
| Norway                   | 44           | 44           | 50           | 50           | 50           | 47           | 46           | 43            | 43            | 45 o          |
| Poland                   | 8            | 22           | 30           | 43           | 45           | 50           | 45           | 45            | 45            | 45 e          |
| Portugal                 | 39           | 40           | 42           | 41           | 41           | 41           | 41 o         | 41 o          | 41 o          | 40 o          |
| Slovakia                 | 6            | 6            | 10           | 6            | 6            | 6 e          | 6 e          | 7             | 7             | 7 e           |
| Spain                    | 117          | 117          | 117          | 121          | 121          | 121          | 121          | 133           | 133 o         | 133 o         |
| Sweden                   | 230          | 438          | 564          | 567          | 566          | 568          | 623          | 386           | 336           | 336 e         |
| Switzerland              | 197          | 211          | 212          | 212 e        | 212 o        | 211 o        | 211 o        | 203           | 203 e         | 203 e         |
| UK                       | 340          | 465          | 514          | 545          | 568          | 655          | 717          | 725           | 752           | 779 o         |
| <b>European Union</b>    | <b>3 562</b> | <b>3 791</b> | <b>3 999</b> | <b>4 077</b> | <b>4 165</b> | <b>4 177</b> | <b>4 151</b> | <b>4 001</b>  | <b>3 960</b>  | <b>4 018</b>  |
| <b>Middle East</b>       | <b>18</b>    | <b>18</b>    | <b>18</b>    | <b>18</b>    | <b>18</b>    | <b>18</b>    | <b>15</b>    | <b>15</b>     | <b>23</b>     | <b>30</b>     |
| Israel                   | 3 e          | 3 e          | 3 e          | 3 e          | 3 e          | 3 e          | 15 e         | 15 e          | 15 e          | 15 e          |
| Qatar                    | 15 e         | 8            |               |               | 15            |
| United Arab Em           |              |              |              |              |              |              |              |               |               |               |
| <b>N America</b>         | <b>1 154</b> | <b>1 166</b> | <b>1 168</b> | <b>1 167</b> | <b>1 155</b> | <b>1 098</b> | <b>1 099</b> | <b>1 097</b>  | <b>1 064</b>  | <b>1 064</b>  |
| Canada                   | 38 o         | 41 o         | 43 o         | 44 o         | 38 e         | 38 e         | 38 o         | 38 o          | 38 o          | 38 o          |
| Greenland                | 1 o          | 1 o          | 1 o          | 1 o          | 1 o          | 1 o          | 1 o          | 1 o           | 1 o           | 1 e           |
| Mexico                   |              |              |              |              |              |              |              |               |               |               |
| USA                      | 1 115 o      | 1 124 o      | 1 124 o      | 1 123 o      | 1 117 o      | 1 060 o      | 1 061 o      | 1 058 o       | 1 025 o       | 1 025 o       |
| <b>Oceania</b>           |              |              |              |              |              |              |              |               |               | <b>0</b>      |
| Australia                |              |              |              |              |              |              |              |               |               | <b>0 e</b>    |
| <b>S America</b>         |              | <b>3</b>     | <b>3</b>     | <b>5</b>     | <b>13</b>    | <b>14</b>    | <b>29</b>    | <b>34</b>     | <b>41</b>     |               |
| Brazil                   |              | 3 o          | 3 o          | 5 o          | 13 o         | 14 o         | 29 o         | 34 o          | 41 o          |               |

# Renewable municipal waste

## Déchets municipaux renouvelables

## Residuos municipales renovables

| <b>PROD (GWh)</b>        | <b>2014</b>   | <b>2015</b>   | <b>2016</b>   | <b>2017</b>   | <b>2018</b>   | <b>2019</b>   | <b>2020</b>   | <b>2021</b>   | <b>2022</b>    |
|--------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|
| <b>World</b>             | <b>45 680</b> | <b>49 014</b> | <b>51 487</b> | <b>56 448</b> | <b>61 482</b> | <b>67 372</b> | <b>72 012</b> | <b>85 416</b> | <b>93 436</b>  |
| <b>Asia</b>              | <b>15 686</b> | <b>18 173</b> | <b>19 949</b> | <b>24 232</b> | <b>28 414</b> | <b>35 481</b> | <b>39 692</b> | <b>51 990</b> | <b>59 915</b>  |
| China                    | 9 845         | 11 958        | 15 296        | 19 438        | 23 264        | 30 350 o      | 34 400 e      | 45 900 e      | 52 700 e       |
| Chinese Taipei           | 1 663 e       | 1 692 e       | 1 698 e       | 1 671 o       | 1 783 e       | 1 817 e       | 1 785 e       | 1 802 e       | 1 803 e        |
| India                    | 275 e         | 320 e         | 290 e         | 301 e         | 417 e         | 579 e         | 929 e         | 1 536 e       | 1 916 e        |
| Indonesia                | 18 o          | 10 o          | 3 o           | 295 o         | 311 o         | 11 o          | 9 o           | 6 o           | 22 o           |
| Japan                    | 3 096         | 3 123         | 1 828         | 1 695         | 1 811         | 1 907         | 1 770         | 1 855         | 2 207          |
| Korea Rep                | 144           | 196           | 184           | 171           | 173           | 163           | 163           | 219           | 224            |
| Malaysia                 | 4 e           | 18 e          | 8 e           | 19 e          | 8 e           | 9 e           | 9 e           | 9 e           | 9 e            |
| Maldives                 |               |               |               |               |               | 0 u           | 0 u           | 0 u           | 0 u            |
| Myanmar                  |               |               |               |               | 1 e           | 1 e           | 1 e           | 1 e           | 1 e            |
| Singapore                | 627 o         | 628 o         | 619 o         | 601 o         | 556 o         | 514 o         | 451 o         | 418 o         | 800 o          |
| Sri Lanka                |               |               |               |               |               |               | 1 o           | 35 o          | 35 o           |
| Thailand                 | 13 o          | 228 o         | 23 o          | 37 o          | 76 o          | 116 o         | 160 o         | 195 o         | 155 o          |
| Viet Nam                 |               |               |               | 3 e           | 14 e          | 14 e          | 14 e          | 14 e          | 44 e           |
| <b>C America + Carib</b> | <b>11</b>     | <b>13</b>     | <b>18</b>     | <b>12</b>     | <b>13</b>     | <b>9</b>      | <b>5</b>      | <b>13</b>     | <b>13</b>      |
| Aruba                    |               |               | 5 e           |               |               |               |               |               |                |
| Martinique               | 11            | 13            | 14            | 12 o          | 13 o          | 9             | 5             | 13            | 13             |
| <b>Eurasia</b>           | <b>174</b>    | <b>182</b>    | <b>175</b>    | <b>170</b>    | <b>174</b>    | <b>213</b>    | <b>215</b>    | <b>478</b>    | <b>933</b>     |
| Azerbaijan               |               |               |               |               |               |               |               |               |                |
| Türkiye                  | 174           | 182           | 175           | 170           | 162<br>11     | 196<br>17     | 201<br>15     | 193 o<br>284  | 205 e<br>728 o |
| <b>Europe</b>            | <b>21 087</b> | <b>21 936</b> | <b>22 517</b> | <b>23 530</b> | <b>24 181</b> | <b>24 211</b> | <b>24 627</b> | <b>25 425</b> | <b>25 393</b>  |
| Albania                  |               |               |               |               |               |               |               |               |                |
| Andorra                  | 13 o          | 14 o          | 14 o          | 17 o          | 21 o          | 22 o          | 20 o          | 17 o          | 19 o           |
| Austria                  | 331           | 302           | 330           | 316           | 336           | 358           | 328           | 354           | 354            |
| Belgium                  | 832           | 869           | 880           | 921           | 916           | 864           | 910           | 937           | 1 009          |
| Bulgaria                 |               |               |               |               | 81            | 44            | 2             |               |                |
| Czechia                  | 88            | 87            | 99            | 114           | 100           | 105           | 119           | 127           | 130            |
| Denmark                  | 885           | 919           | 861           | 884           | 861           | 964           | 945           | 971           | 1 020          |
| Estonia                  |               | 58            | 64            | 57            | 46            | 64            | 75            | 58            | 41             |
| Finland                  | 441           | 471           | 519           | 556           | 662           | 610           | 513           | 582           | 588            |
| France                   | 2 084         | 2 026         | 2 122         | 2 205         | 2 202         | 2 173         | 2 137         | 2 125         | 2 114          |
| Germany                  | 6 070         | 5 768         | 5 930         | 5 956         | 6 163         | 5 806         | 5 820         | 5 792         | 5 562          |
| Hungary                  | 137           | 208           | 245           | 159           | 162           | 137           | 167           | 161           | 130            |
| Ireland                  | 72            | 77            | 76            | 151           | 330           | 320           | 326           | 351           | 347            |
| Italy                    | 2 371         | 2 344         | 2 415         | 2 384 e       | 2 371         | 2 369         | 2 330         | 2 308         | 2 326          |
| Lithuania                | 29            | 42            | 47            | 73            | 48            | 48            | 71            | 142           | 156            |
| Luxembourg               | 34            | 40            | 42            | 47            | 47            | 47            | 43            | 43            | 42             |
| Netherlands              | 1 909         | 1 972         | 2 007         | 1 904         | 2 172         | 2 082         | 2 193         | 2 208         | 2 224          |
| Norway                   | 215           | 221           | 192           | 214           | 171           | 214           | 210           | 185 o         | 205 o          |
| Poland                   |               |               | 12            | 81            | 85            | 105           | 182           | 354           | 302 o          |
| Portugal                 | 240           | 292           | 305           | 360           | 327           | 349           | 320           | 343           | 309            |
| Slovakia                 | 22            | 22            | 26            | 22            | 16            | 29            | 43            | 32            | 50 o           |
| Spain                    | 686           | 768           | 735           | 772           | 755           | 770           | 703           | 855           | 864 o          |
| Sweden                   | 1 626         | 1 749         | 1 681         | 1 778         | 1 656         | 1 767         | 1 646         | 1 813         | 1 761 o        |
| Switzerland              | 1 102         | 1 106         | 1 175         | 1 174         | 1 164         | 1 173         | 1 178         | 1 108         | 1 087 u        |
| UK                       | 1 900         | 2 582         | 2 740         | 3 386 u       | 3 490 u       | 3 792 u       | 4 347 u       | 4 559 u       | 4 756 u        |
| <b>European Union</b>    | <b>17 868</b> | <b>18 026</b> | <b>18 409</b> | <b>18 751</b> | <b>19 348</b> | <b>19 020</b> | <b>18 877</b> | <b>19 569</b> | <b>19 338</b>  |
| <b>Middle East</b>       | <b>88</b>     | <b>102</b>    | <b>105</b>    | <b>110</b>    | <b>114</b>    | <b>93</b>     | <b>106</b>    | <b>106</b>    | <b>106</b>     |
| Israel                   | 8 e           | 8 e           | 8 e           | 8 e           | 8 e           |               |               |               |                |
| Qatar                    | 80 e          | 94 e          | 97 e          | 102 e         | 106 e         | 93 e          | 106 e         | 106 e         | 106 e          |
| <b>N America</b>         | <b>8 634</b>  | <b>8 608</b>  | <b>8 713</b>  | <b>8 385</b>  | <b>8 573</b>  | <b>7 334</b>  | <b>7 320</b>  | <b>7 328</b>  | <b>6 964</b>   |
| Canada                   | 160 o         | 167 o         | 176 o         | 189 o         | 177 o         | 176 o         | 169 o         | 169 o         | 169 o          |
| Greenland                | 13            | 14            | 13            | 13            | 14            | 15            | 14            | 14            | 12             |
| USA                      | 8 461         | 8 427         | 8 524         | 8 183 o       | 8 382 o       | 7 143 o       | 7 137 o       | 7 145 o       | 6 783 o        |
| <b>S America</b>         |               |               | <b>9</b>      | <b>9</b>      | <b>14</b>     | <b>31</b>     | <b>47</b>     | <b>76</b>     | <b>112</b>     |
| Brazil                   |               |               | 9 e           | 9 e           | 14 e          | 31 e          | 47 o          | 76 o          | 112 o          |

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| CAP (MW)          | 2014    | 2015    | 2016   | 2017    | 2018     | 2019     | 2020     | 2021     | 2022     | 2023     |
|-------------------|---------|---------|--------|---------|----------|----------|----------|----------|----------|----------|
| World             | 17 384  | 19 037  | 18 984 | 19 555  | 21 191   | 21 584   | 21 906   | 21 915   | 21 993   | 22 238   |
| Africa            | 1 322   | 1 391   | 1 443  | 1 552   | 1 634    | 1 634    | 1 645    | 1 690    | 1 689    | 1 689    |
| Angola            | 51 e    | 51 e    | 51 e   | 51 e    | 51 e     | 51 e     | 51 e     | 51 e     | 51 e     | 51 e     |
| Burundi           | 4 e     | 4 e     | 4 e    | 4 e     | 4 e      | 4 e      | 4 e      | 4 e      | 4 e      | 4 e      |
| Chad              | 2 o     | 2 o     | 2 o    | 2 o     | 2 o      | 2 o      | 2 o      | 2 e      | 2 e      | 2 e      |
| Congo Rep         | 5 e     | 5 e     | 5 e    | 5 e     | 5 e      | 5 e      | 5 e      | 5 e      | 5 e      | 5 e      |
| Egypt             | 67      | 67      | 67     | 67      | 67       | 67       | 67 e     | 67 e     | 67 e     | 67 e     |
| Eswatini          | 106     | 106     | 106 e  | 106 e   | 106 e    | 106 e    | 106 e    | 106 e    | 106 e    | 106 e    |
| Ethiopia          | 71      | 119     | 145    | 205     | 265      | 265      | 265      | 310      | 310 e    | 310 e    |
| Kenya             | 56 u    | 56 u    | 82 u   | 83 u    | 86 u     | 97 u     | 97 e     | 97 e     | 97 e     | 97 e     |
| Malawi            | 19 e    | 19 e    | 19 e   | 19 e    | 19 e     | 19 e     | 19 e     | 19 e     | 19 e     | 19 e     |
| Mali              | 5 e     | 5 e     | 5 e    | 40 u    | 40 e     |
| Mauritius         | 77 o    | 87 o    | 87 o   | 87 o    | 87 e     |
| Mozambique        | 73      | 73      | 73     | 73      | 73       | 73       | 73       | 73       | 73       | 73       |
| Nigeria           | 5 u     | 5 u     | 5 u    | 5 u     | 5 e      | 5 e      | 5 e      | 5 e      | 5 e      | 5 e      |
| Reunion           | 42 e    | 42 e    | 42 e   | 42 e    | 42 e     | 42 e     | 42 e     | 42 e     | 41 o     | 41 e     |
| Rwanda            | 1 e     | 1 e     | 1 e    | 1 e     | 1 e      | 1 e      | 1 e      | 1 e      | 1 e      | 1 e      |
| Senegal           | 25 e    | 25 e    | 25 e   | 25 e    | 25 e     | 25 e     | 25 e     | 25 e     | 25 e     | 25 e     |
| Sierra Leone      | 32 u    | 32 e    | 32 e   | 32 e    | 32 e     | 32 e     | 32 e     | 32 e     | 32 e     | 32 e     |
| South Africa      | 242 e   | 242 e   | 242 e  | 242 e   | 242 e    | 242 e    | 242 e    | 242 e    | 242 e    | 242 e    |
| Sudan             | 199 e   | 199 e   | 199 e  | 199 e   | 199 e    | 199 e    | 199 e    | 199 e    | 199 e    | 199 e    |
| Tanzania          | 46 o    | 46 o    | 46 o   | 46 e    | 46 e     | 46 e     | 46 e     | 46 e     | 46 e     | 46 e     |
| Uganda            | 54 e    | 65 e    | 65 e   | 76 e    | 96 e     | 96 e     | 96 e     | 96 e     | 96 e     | 96 e     |
| Zambia            | 43 e    | 43 e    | 43 e   | 43 e    | 43 e     | 43 e     | 43 e     | 43 e     | 43 e     | 43 o     |
| Zimbabwe          | 100     | 100 e   | 100 e  | 100 e   | 100 e    | 100 e    | 100 e    | 100 e    | 100 e    | 100 o    |
| Asia              | 2 421   | 2 804   | 2 042  | 2 038   | 3 234    | 3 301    | 3 304    | 3 286    | 3 140    | 3 126    |
| Bangladesh        | 40 u    | 40 u    | 40 u   | 40 u    | 40 u     | 40 u     | 40 u     | 40 u     | 40 u     | 40 u     |
| Cambodia          | 16 o    | 16 o    | 16 o   | 36 o    | 36 o     | 36 e     | 27 e     | 27 e     | 27 o     | 27 o     |
| Indonesia         | 219 o   | 219 o   | 219 o  | 219 o   | 219 o    | 219 e    | 219 e    | 240 e    | 260 e    | 270 e    |
| Lao PDR           | 40 o    | 40 o    | 40 o   | 40 e    | 107 e    |
| Myanmar           | 51 e    | 46 e    | 48 e   | 47 e    | 52 e     | 54 e     |
| Nepal             | 6 e     | 6 e     | 6 e    | 6 e     | 6 e      | 6 e      | 6 e      | 6 e      | 6 e      | 6 e      |
| Pakistan          | 306 e   | 314 e   | 314 e  | 314 e   | 372 o    | 372 o    | 372 o    | 372 e    | 372 e    | 372 e    |
| Philippines       | 92 o    | 149 o   | 161 o  | 161 o   | 208 o    | 233 o    | 321 o    | 321 o    | 355 o    | 330 o    |
| Thailand          | 1 470 e | 1 767 e | 958 e  | 924 e   | 1 842 e  | 1 874 e  | 1 797 e  | 1 775 e  | 1 567 e  | 1 567 e  |
| Viet Nam          | 182 e   | 207 e   | 241 e  | 251 e   | 353 u    | 360 e    | 360 e    | 344 e    | 353 e    | 353 e    |
| C America + Carib | 1 710   | 1 975   | 2 154  | 2 272   | 2 430    | 2 361    | 2 467    | 2 306    | 2 251    | 2 283    |
| Belize            | 28      | 28      | 28 u   | 36 u    | 36 u     | 36 u     | 36 u     | 36 u     | 36 e     | 36 e     |
| Costa Rica        | 40 o    | 40 o    | 40     | 53 o    | 71 o     | 71 o     | 71 o     | 71 o     | 71       | 71       |
| Cuba              | 408 o   | 439 o   | 404 o  | 441 o   | 463 o    | 369 o    | 475 o    | 479 o    | 424 o    | 424 o    |
| Dominican Rep     | 18 o    | 18 o    | 18 o   | 48 o    | 48 o     | 48 o     | 48 o     | 48 o     | 48 o     | 48       |
| El Salvador       | 130 o   | 195     | 252    | 264 o   | 294 o    | 294 o    | 294 o    | 295 o    | 295 e    | 295 o    |
| Guadeloupe        | 30 o    | 30 o    | 30 o   | 30 o    | 30 o     | 30 o     | 30 o     | 30 o     | 30 o     | 30 e     |
| Guatemala         | 718 o   | 874 o   | 989 o  | 1 021 o | 1 074 o  | 1 029 o  | 1 029 o  | 863 o    | 863 o    | 863 o    |
| Honduras          | 113 o   | 125 o   | 125 o  | 125 o   | 125 o    | 135 o    |
| Jamaica           | 32      | 32      | 32     | 32      | 32 e     |
| Martinique        | 134 o   | 134 o   | 177    | 177     | 177 o    | 218 o    | 218 o    | 218 e    | 218 e    | 218 e    |
| Nicaragua         | 60 e    | 60 e    | 60 e   | 60 e    | 60 e     | 60 e     | 60 e     | 60 e     | 60 e     | 92 o     |
| Europe            | 2       | 2       | 2      | 2       | 2        | 2        | 2        | 2        | 2        | 2        |
| Portugal          | 2       | 2       | 2      | 2       | 2        | 2        | 2        | 2 e      | 2        | 2 e      |
| European Union    | 72      | 74      | 74     | 74      | 114      | 114      | 114      | 114      | 113      | 113      |
| N America         | 796     | 912     | 976    | 985     | 985      | 985      | 985      | 984      | 984      | 984      |
| Mexico USA        | 568 o   | 684 o   | 795 o  | 815 o   | 815 o    | 815 o    | 815 o    | 814 o    | 814 o    | 814 o    |
| Oceania           | 453     | 458     | 534    | 534     | 534      | 534      | 534      | 542      | 542      | 542      |
| Australia Fiji    | 424     | 424     | 500 o  | 500 o   | 500 o    | 500 e    |
|                   | 29 u    | 34 u    | 34 e   | 34 u    | 34 e     | 34 e     | 42 e     | 42 e     | 42 e     | 42 e     |
| S America         | 10 682  | 11 495  | 11 831 | 12 173  | 12 371   | 12 767   | 12 969   | 13 104   | 13 385   | 13 612   |
| Argentina         | 132 e   | 153 o   | 153 o  | 153 o   | 153 o    | 155 o    |
| Bolivia           | 51      | 116     | 131    | 115     | 139      | 144      | 144      | 143      | 192      | 251      |
| Brazil            | 9 881   | 10 549  | 10 874 | 11 168  | 11 348 o | 11 715 o | 11 914 o | 12 064 o | 12 278 o | 12 446 o |
| Colombia          | 215 u   | 237 u   | 253 u  | 306 u   | 316 u    | 316 e    | 319 e    | 336 e    | 338 u    | 338 e    |
| Ecuador           | 144 o   | 144 o   | 144 o  | 144 e   | 144 e    | 144 o    | 144 o    | 144 o    | 144      | 144      |
| Guyana            | 51      | 51      | 42     | 42      | 27 e     |
| Paraguay          | 39      | 39      | 39     | 39      | 39 e     |
| Peru              | 149 o   | 187 o   | 176 o  | 186 o   | 186 o    | 208 o    | 208 e    | 177 o    | 192 o    | 192 e    |
| Uruguay           | 10      | 10      | 10     | 10      | 10       | 10 e     | 10 e     | 10 o     | 10 o     | 10 o     |
| Venezuela         | 10 o    | 10 o    | 10 o   | 10 o    | 10 o     | 10 o     | 10 o     | 10 o     | 10 o     | 10 o     |

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| PROD (GWh)               | 2014          | 2015          | 2016          | 2017          | 2018          | 2019          | 2020          | 2021          | 2022            |
|--------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|-----------------|
| <b>World</b>             | <b>53 900</b> | <b>60 924</b> | <b>61 032</b> | <b>61 388</b> | <b>67 915</b> | <b>71 004</b> | <b>70 238</b> | <b>66 887</b> | <b>63 583</b>   |
| <b>Africa</b>            | <b>2 728</b>  | <b>2 840</b>  | <b>3 043</b>  | <b>2 843</b>  | <b>3 034</b>  | <b>3 054</b>  | <b>2 779</b>  | <b>2 798</b>  | <b>2 834</b>    |
| Angola                   | 36 u          | 42 u          | 155 u         | 200 u         | 200 e           |
| Burundi                  | 6 o           | 6 o           | 7 o           | 7 e           | 6 e           | 5 e           | 6 e           | 6 e           | 6 e             |
| Chad                     | 9 e           | 9 e           | 9 e           | 9 e           | 8 e           | 7 e           | 8 e           | 8 e           | 9 e             |
| Congo Rep                | 13 e            |
| Egypt                    | 321 e         | 318 e         | 311 e         | 308 o         | 316 e         | 326 e         | 206 e         | 247 e         | 320 e           |
| Eswatini                 | 168 e         | 174 e         | 181 e         | 180 e         | 188 e         | 189 e         | 191 e         | 203 e         | 187 e           |
| Ethiopia                 | 31 e          | 28 e          | 28 e          | 23 e          | 26 e          | 30 e          | 27 e          | 16            | 8               |
| Kenya                    | 199 e         | 202 e         | 194 e         | 151 e         | 163 e         | 144 e         | 194 e         | 194 e         | 194 e           |
| Malawi                   | 52 e          | 52 e          | 48 e          | 44 e          | 47 e          | 46 e          | 49 e          | 51 e          | 51 e            |
| Mali                     | 8 e           | 8 e           | 11 e          | 12 e          | 13 e          | 15 e          | 15 e          | 15 e          | 15 e            |
| Mauritius                | 456 e         | 510 e         | 497           | 463           | 437           | 440           | 384           | 350           | 283             |
| Mozambique               | 62            | 124           | 129           | 137           | 105           | 107           | 105           | 78            | 65              |
| Nigeria                  | 13 e          | 13 e          | 13 e          | 15 e          | 15 e          | 15 e          | 15 e          | 16 e          | 16 e            |
| Reunion                  | 251 o         | 270 o         | 244 o         | 261 o         | 196 o         | 240 o         | 221 o         | 217 o         | 181 o           |
| Rwanda                   | 2             | 2             | 2 e           | 2 e           | 2 e           | 2 e           | 2 e           | 2 e           | 2 e             |
| Senegal                  | 41 o          | 52 o          | 58 o          | 65 e          | 66 e          | 67 e          | 66 e          | 67 e          | 67 e            |
| Sierra Leone             | 5 e           | 6 e           | 6 e           | 5 e           | 5 e           | 5 e           | 5 e           | 5 e           | 6 e             |
| South Africa             | 355 e         | 297 e         | 301 e         | 348 e         | 386 e         | 385 e         | 364 e         | 360 e         | 360 e           |
| Sudan                    | 116           | 118 e         | 120 e         | 130 e         | 122 e         | 109 e         | 103 e         | 107 e         | 107 e           |
| Tanzania                 | 64 e          | 64 e          | 65 e          | 70 e          | 73 e          | 83 e          | 83 e          | 83 e          | 83 e            |
| Uganda                   | 231 e         | 276 e         | 282 e         | 256 e         | 317 e         | 307 e         | 295 o         | 374 o         | 471 o           |
| Zambia                   | 71 e          | 64 o          | 63 o          | 67 o          | 71 o          | 72 o          | 74 e          | 79 e          | 79 e            |
| Zimbabwe                 | 221 e         | 195 e         | 306 e         | 76 e          | 258 e         | 248 e         | 153 e         | 110 e         | 113 e           |
| <b>Asia</b>              | <b>7 085</b>  | <b>11 392</b> | <b>9 503</b>  | <b>10 118</b> | <b>15 195</b> | <b>15 943</b> | <b>14 468</b> | <b>15 576</b> | <b>14 896</b>   |
| Bangladesh               | 43 e          | 26 e          | 20 e          | 40 e          | 27 e          | 31 e          | 31 e          | 28 e          | 8 e             |
| Cambodia                 | 26 e          | 50 e          | 54 e          | 70 e          | 83 e          | 103 e         | 76 e          | 66 e          | 30 e            |
| Indonesia                | 572 e         | 540 e         | 560 e         | 560 e         | 583 e         | 576 e         | 552 e         | 733 e         | 1 027 e         |
| Lao PDR                  | 53 e          | 54 e          | 55 e          | 73 e          | 89 e          | 85 e          | 81 e          | 76 e          | 85 e            |
| Myanmar                  | 223 e         | 203 e         | 209 e         | 207 e         | 228 e         | 237 e         | 238 o         | 233 e         | 239 e           |
| Nepal                    | 8 e           | 9 e           | 8 e           | 8 e           | 11 e          | 11 e          | 6 e           | 7 e           | 7 e             |
| Pakistan                 | 1 599 e       | 1 963 e       | 2 533 e       | 3 091 e       | 2 715 e       | 2 549 o       | 2 641 o       | 3 004 e       | 3 004 e         |
| Philippines              | 147 e         | 259 o         | 521 o         | 698 o         | 822 o         | 767 e         | 966           | 1 094 e       | 879 e           |
| Thailand                 | 4 018 o       | 7 921 o       | 5 217 o       | 5 004 o       | 10 140 o      | 11 117 o      | 9 505 o       | 10 013 o      | 9 138 o         |
| Viet Nam                 | 396 e         | 367 e         | 326 e         | 367 e         | 498 e         | 467 e         | 372 e         | 321 e         | 478 e           |
| <b>C America + Carib</b> | <b>4 643</b>  | <b>5 410</b>  | <b>5 765</b>  | <b>5 337</b>  | <b>6 168</b>  | <b>7 190</b>  | <b>6 088</b>  | <b>6 237</b>  | <b>5 506</b>    |
| Belize                   | 97 e          | 121 e         | 115 e         | 120 e         | 137 o         | 163           | 270 e         | 133           | 174             |
| Costa Rica               | 84 o          | 82 o          | 75 o          | 88 o          | 77 o          | 72 o          | 59 o          | 67 o          | 56 o            |
| Cuba                     | 637 e         | 703 e         | 686 o         | 622 o         | 444 o         | 519 e         | 547 o         | 432           | 276 e           |
| Dominican Rep            | 96 e          | 96 e          | 96 e          | 234 e         | 323 e         | 328 e         | 287 e         | 320 e         | 304 o           |
| El Salvador              | 405           | 521           | 682           | 674           | 710           | 797           | 786           | 881           | 790             |
| Guadeloupe               | 60 o          | 56 o          | 50 o          | 63 o          | 56 o          | 47 o          | 47 o          | 46 o          | 40 o            |
| Guatemala                | 2 159 o       | 2 683 o       | 2 866 o       | 2 163 o       | 2 922 o       | 3 435 o       | 2 485 o       | 2 574 o       | 2 075 o         |
| Honduras                 | 319 o         | 383 o         | 359 o         | 410 o         | 419 o         | 505 o         | 394 o         | 408 o         | 408 o           |
| Jamaica                  | 33 e          | 30 e          | 24 e          | 24 e          | 13 o          | 21 e          | 17 e          | 17 e          | 10              |
| Martinique               |               |               |               |               | 76 o          | 239           | 221           | 228           | 250             |
| Nicaragua                | 492 o         | 455 o         | 533 o         | 666 o         | 702 o         | 841 o         | 733 o         | 899 o         | 890 o           |
| Panama                   | 262 o         | 279 o         | 279 o         | 272 o         | 291 o         | 223 o         | 241 o         | 232 o         | 234 o           |
| <b>Europe</b>            |               | <b>12</b>     | <b>15</b>     | <b>10</b>     | <b>27</b>     | <b>34</b>     | <b>34</b>     | <b>15</b>     | <b>17</b>       |
| Portugal                 |               | 12            | 15            | 10            | 27 e          | 34 e          | 34 e          | 15 e          | 17              |
| <b>European Union</b>    | <b>312</b>    | <b>338</b>    | <b>309</b>    | <b>334</b>    | <b>356</b>    | <b>560</b>    | <b>523</b>    | <b>505</b>    | <b>488</b>      |
| <b>N America</b>         | <b>2 161</b>  | <b>2 116</b>  | <b>1 979</b>  | <b>2 124</b>  | <b>2 867</b>  | <b>2 708</b>  | <b>2 572</b>  | <b>2 265</b>  | <b>2 597</b>    |
| Mexico                   | 898 o         | 921 o         | 954 o         | 1 236 o       | 2 006 o       | 1 875 o       | 1 770 o       | 1 437 o       | 1 762           |
| USA                      | 1 263 o       | 1 195 o       | 1 025 o       | 889 o         | 861 o         | 832 o         | 802 o         | 828 o         | 834             |
| <b>Oceania</b>           | <b>1 524</b>  | <b>1 667</b>  | <b>1 855</b>  | <b>1 572</b>  | <b>1 496</b>  | <b>1 371</b>  | <b>1 282</b>  | <b>1 302</b>  | <b>1 201 o</b>  |
| Australia                | 1 466 e       | 1 609 e       | 1 810 e       | 1 521 e       | 1 443 e       | 1 312 e       | 1 219 e       | 1 250 e       | 1 141           |
| Fiji                     | 58 e          | 58 e          | 45 e          | 51 e          | 53 e          | 59 o          | 63 o          | 52 o          | 60              |
| <b>S America</b>         | <b>35 759</b> | <b>37 486</b> | <b>38 872</b> | <b>39 384</b> | <b>39 126</b> | <b>40 705</b> | <b>43 015</b> | <b>38 693</b> | <b>36 532 o</b> |
| Argentina                | 658 e         | 830 e         | 857 e         | 938 e         | 797 e         | 900 e         | 905 e         | 817 e         | 806             |
| Bolivia                  | 126 e         | 202 o         | 176           | 163           | 168           | 217 o         | 327 o         | 455           | 528             |
| Brazil                   | 32 557 o      | 34 024 o      | 35 236 o      | 35 656 o      | 35 435 o      | 36 827 o      | 38 776 o      | 34 342 o      | 32 262 e        |
| Colombia                 | 1 297         | 1 381         | 1 418         | 1 556         | 1 706         | 1 657         | 1 712         | 1 826 u       | 1 745           |
| Ecuador                  | 399 o         | 408 o         | 477 o         | 431 o         | 382 o         | 414 o         | 427 o         | 373 o         | 348 o           |
| Guyana                   | 78            | 63            | 82            | 82            | 77            | 67 e          | 67 e          | 67 o          | 67 u            |
| Paraguay                 | 137           | 144           | 168           | 139           | 131           | 130           | 243 e         | 260 e         | 229 o           |
| Peru                     | 480 o         | 409 o         | 433 o         | 393 o         | 403 o         | 467 o         | 533 o         | 528 o         | 522 e           |
| Uruguay                  | 26 o          | 26              |

**Other solid biofuels**  
**Autres biocarburants solides**  
**Otros biocombustibles sólidos**

| CAP (MW)                 | 2014          | 2015          | 2016          | 2017          | 2018          | 2019          | 2020          | 2021          | 2022          | 2023          |
|--------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| <b>World</b>             | <b>46 197</b> | <b>48 840</b> | <b>55 948</b> | <b>59 499</b> | <b>62 850</b> | <b>65 528</b> | <b>70 507</b> | <b>74 188</b> | <b>78 207</b> | <b>80 903</b> |
| <b>Africa</b>            | <b>45</b>     | <b>43</b>     | <b>44</b>     | <b>49</b>     | <b>49</b>     | <b>49</b>     | <b>53</b>     | <b>61</b>     | <b>61</b>     | <b>61</b>     |
| Congo DR                 | 0             | 0             | 0             | 2             | 3             | 3             | 3             | 3             | 3             | 3             |
| Congo Rep                | 7             | 7             | 7             | 7             | 7             | 7             | 7             | 7             | 7             | 7             |
| Eswatini                 |               |               |               |               |               |               |               |               |               |               |
| Ghana                    | 8             | 8             | 8             | 8             | 8             | 8             | 8             | 8             | 8             | 8             |
| Liberia                  | 0             | 0             | 0             | 0             | 0             | 0             | 0             | 0             | 0             | 0             |
| Madagascar               | 0             | 0             | 0             | 0             | 0             | 0             | 0             | 0             | 0             | 0             |
| Mali                     | 0             | 0             | 0             | 0             | 0             | 0             | 0             | 0             | 0             | 0             |
| Namibia                  | 0             | 0             | 0             | 0             | 0             | 0             | 0             | 0             | 0             | 0             |
| Nigeria                  | 3             | 3             | 4             | 4             | 4             | 4             | 8             | 16            | 16            | 16            |
| Sierra Leone             | 2             | 2             | 2             | 2             | 2             | 2             | 2             | 2             | 2             | 2             |
| Tanzania                 | 24            | 21            | 21            | 24            | 24            | 24            | 24            | 24            | 24            | 24            |
| Zimbabwe                 | 1             | 1             | 1             | 1             | 1             | 1             | 1             | 1             | 1             | 1             |
| <b>Asia</b>              | <b>13 649</b> | <b>15 387</b> | <b>21 758</b> | <b>24 079</b> | <b>25 442</b> | <b>27 908</b> | <b>32 781</b> | <b>35 792</b> | <b>38 494</b> | <b>40 579</b> |
| Bangladesh               | 0             | 0             | 0             | 0             | 0             | 0             | 0             | 0             | 0             | 0             |
| Cambodia                 | 43            | 40            | 38            | 38            | 38            | 40            | 38            | 47            | 47            | 47            |
| China                    | 4 450         | 5 304         | 6 050         | 7 140         | 8 030         | 9 729         | 13 300        | 15 590        | 16 230        | 16 880        |
| China HK SAR             |               |               |               | 28            | 28            | 28            | 28            | 28            | 28            | 28            |
| Chinese Taipei           | 81            | 79            | 79            | 79            | 75            | 83            | 91            | 91            | 91            | 81            |
| India                    | 4 899         | 5 332         | 8 746         | 9 258         | 9 965         | 10 046        | 10 331        | 10 361        | 10 395        | 10 447        |
| Indonesia                | 1 472         | 1 452         | 1 484         | 1 522         | 1 540         | 1 545         | 1 548         | 1 881         | 2 665         | 2 931         |
| Japan                    | 156           | 396           | 678           | 1 044         | 1 433         | 1 879         | 2 219         | 2 838         | 3 674         | 4 666         |
| Kazakhstan               |               |               |               |               |               |               |               |               |               |               |
| Korea Rep                | 74            | 160           | 1 179         | 1 799         | 1 835         | 1 992         | 2 447         | 2 011         | 2 011         | 2 021         |
| Lao PDR                  |               |               |               |               | 16            | 16            | 16            | 16            | 16            | 16            |
| Malaysia                 | 1 404         | 1 528         | 1 462         | 732           | 734           | 774           | 774           | 774           | 774           | 774           |
| Myanmar                  | 0             | 0             | 0             | 3             | 3             | 3             | 3             | 3             | 3             | 3             |
| Nepal                    | 1             | 1             | 1             | 1             | 1             | 1             |               |               |               |               |
| Pakistan                 | 10            | 10            | 51            | 51            | 51            | 51            | 51            | 51            | 51            | 51            |
| Philippines              | 20            | 53            | 58            | 74            | 80            | 107           | 136           | 142           | 223           | 229           |
| Singapore                | 26            | 40            | 41            | 41            | 40            | 37            | 35            | 47            | 37            | 49            |
| Sri Lanka                | 20            | 20            | 24            | 26            | 27            | 40            | 40            | 40            | 40            | 40            |
| Thailand                 | 982           | 960           | 1 857         | 2 233         | 1 531         | 1 536         | 1 720         | 1 871         | 2 198         | 2 305         |
| Viet Nam                 | 11            | 11            | 11            | 11            | 11            | 11            | 11            | 11            | 11            | 11            |
| <b>C America + Carib</b> | <b>28</b>     | <b>50</b>     | <b>91</b>     | <b>122</b>    | <b>127</b>    | <b>123</b>    | <b>140</b>    | <b>140</b>    | <b>140</b>    | <b>140</b>    |
| Costa Rica               | 2             | 5             | 5             | 5             | 5             | 5             | 5             | 5             | 5             | 5             |
| Cuba                     | 1             | 1             | 1             | 1             | 1             | 1             | 1             | 1             | 1             | 1             |
| Dominican Rep            |               |               |               | 31            | 31            | 31            | 31            | 31            | 31            | 31            |
| El Salvador              |               |               |               |               | 5             |               |               |               |               |               |
| Guadeloupe               | 1             | 1             | 1             | 1             | 1             |               | 17            | 17            | 17            | 17            |
| Guatemala                | 1             | 1             | 1             | 1             | 1             | 1             | 1             | 1             | 1             | 1             |
| Honduras                 | 24            | 43            | 84            | 84            | 84            | 86            | 86            | 86            | 86            | 86            |
| St Lucia                 |               |               | 0             | 0             | 0             | 0             | 0             | 0             | 0             | 0             |
| <b>Eurasia</b>           | <b>1 380</b>  | <b>1 382</b>  | <b>1 425</b>  | <b>1 456</b>  | <b>1 501</b>  | <b>1 587</b>  | <b>1 704</b>  | <b>1 863</b>  | <b>1 989</b>  | <b>1 989</b>  |
| Russian Fed              | 1 370         | 1 370         | 1 370         | 1 373         | 1 373         | 1 373         | 1 373         | 1 373         | 1 373         | 1 373         |
| Türkiye                  | 10            | 12            | 55            | 83            | 129           | 214           | 332           | 491           | 616           | 616           |
| <b>Europe</b>            | <b>16 362</b> | <b>16 893</b> | <b>17 200</b> | <b>18 058</b> | <b>20 067</b> | <b>20 528</b> | <b>20 476</b> | <b>20 797</b> | <b>21 509</b> | <b>21 665</b> |
| Austria                  | 959           | 939           | 917           | 838           | 824           | 813           | 816           | 765           | 784           | 784           |
| Belarus                  | 13            | 13            | 13            | 13            | 16            | 16            | 86            | 83            | 101           | 101           |
| Belgium                  | 520           | 558           | 535           | 527           | 492           | 501           | 527           | 412           | 453           | 454           |
| Bosnia Herzg             |               |               |               |               | 0             | 1             | 1             | 9             | 9             | 9             |
| Bulgaria                 | 30            | 34            | 19            | 23            | 33            | 24            | 15            | 14            | 15            | 15            |
| Croatia                  | 8             | 25            | 26            | 42            | 65            | 76            | 80            | 95            | 101           | 101           |
| Czechia                  | 355           | 380           | 376           | 402           | 385           | 434           | 452           | 456           | 455           | 455           |
| Denmark                  | 989           | 973           | 1 032         | 1 501         | 1 485         | 1 681         | 1 777         | 1 848         | 1 707         | 1 707         |
| Estonia                  | 165           | 165           | 165           | 165           | 165           | 180           | 200           | 200           | 198           | 198           |
| Finland                  | 1 751         | 1 751         | 1 747         | 1 966         | 1 966         | 1 963         | 2 442         | 2 398         | 2 835         | 2 697         |
| France                   | 464           | 528           | 612           | 624           | 828           | 875           | 810           | 899           | 911           | 971           |
| Germany                  | 1 582         | 1 589         | 1 597         | 1 598         | 1 582         | 1 595         | 1 568         | 1 584         | 1 589         | 1 609         |
| Greece                   | 2             | 2             | 3             | 12            | 13            | 14            | 14            | 16            | 16            | 16            |
| Hungary                  | 467           | 422           | 322           | 386           | 414           | 402           | 397           | 438           | 424           | 425           |
| Ireland                  | 5             | 5             | 5             | 5             | 5             | 7             | 7             | 7             | 7             | 7             |
| Italy                    | 613           | 605           | 674           | 671           | 717           | 711           | 708           | 682           | 681           | 681           |
| Latvia                   | 63            | 66            | 81            | 94            | 97            | 97            | 96            | 95            | 90            | 79            |
| Lithuania                | 46            | 45            | 39            | 45            | 62            | 63            | 63            | 58            | 62            | 196           |
| Luxembourg               | 4             | 4             | 4             | 15            | 15            | 35            | 35            | 35            | 36            | 72            |
| Netherlands              | 190           | 210           | 210           | 226           | 231           | 228           | 271           | 284           | 284           | 284           |
| North Macedonia          |               |               |               |               | 1             | 2             | 2             | 3             | 3             | 3             |
| Norway                   | 79            | 79            | 27            | 27            | 27            | 27            | 20            | 27            | 27            | 27            |
| Poland                   | 534           | 628           | 592           | 549           | 576           | 582           | 567           | 664           | 740           | 740           |
| Portugal                 | 456           | 469           | 475           | 469           | 534           | 587           | 601           | 601           | 591           | 591           |
| Romania                  | 79            | 104           | 107           | 119           | 119           | 119           | 136           | 109           | 161           | 161           |
| Serbia                   | 1             | 1             | 1             | 1             | 1             | 2             | 2             | 2             | 2             | 2             |
| Slovakia                 | 153           | 145           | 150           | 149           | 148           | 138           | 137           | 163           | 180           | 180           |
| Slovenia                 | 30            | 30            | 30            | 33            | 32            | 34            | 35            | 36            | 36            | 65            |
| Spain                    | 673           | 672           | 672           | 672           | 672           | 718           | 868           | 867           | 867           | 867           |
| Sweden                   | 3 729         | 3 700         | 3 769         | 3 706         | 3 918         | 3 834         | 2 942         | 3 093         | 3 274         | 3 274         |
| UK                       | 2 369         | 2 715         | 2 963         | 3 150         | 4 593         | 4 684         | 4 693         | 4 702         | 4 714         | 4 714         |
| Ukraine                  | 35            | 35            | 39            | 39            | 52            | 87            | 109           | 152           | 152           | 178           |
| <b>European Union</b>    | <b>13 868</b> | <b>14 052</b> | <b>14 160</b> | <b>14 830</b> | <b>15 380</b> | <b>15 715</b> | <b>15 585</b> | <b>15 841</b> | <b>16 524</b> | <b>16 654</b> |

**Other solid biofuels**  
**Autres biocarburants solides**  
**Otros biocombustibles sólidos**

| CAP (MW)         | 2014          | 2015          | 2016          | 2017          | 2018          | 2019          | 2020          | 2021          | 2022          | 2023          |
|------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| <b>N America</b> | <b>10 836</b> | <b>11 362</b> | <b>11 405</b> | <b>11 381</b> | <b>11 255</b> | <b>10 830</b> | <b>10 783</b> | <b>10 372</b> | <b>10 260</b> | <b>10 172</b> |
| Canada           | 2 342         | 2 318         | 2 385         | 2 465         | 2 477         | 2 370         | 2 370         | 2 370         | 2 378         | 2 378         |
| Mexico           | 1             | 1             | 1             | 1             | 1             | 1             | 1             | 2             | 2             | 3             |
| USA              | 8 494         | 9 043         | 9 019         | 8 915         | 8 778         | 8 459         | 8 411         | 8 000         | 7 880         | 7 791         |
| <b>Oceania</b>   | <b>300</b>    | <b>300</b>    | <b>300</b>    | <b>317</b>    | <b>317</b>    | <b>317</b>    | <b>312</b>    | <b>312</b>    | <b>312</b>    | <b>313</b>    |
| Australia        | 174           | 174           | 174           | 174           | 174           | 174           | 174           | 174           | 174           | 174           |
| Fiji             | 12            | 12            | 12            | 24            | 24            | 24            | 24            | 24            | 24            | 24            |
| New Zealand      | 99            | 99            | 99            | 104           | 104           | 104           | 98            | 98            | 98            | 99            |
| Papua N Guin     | 15            | 15            | 15            | 15            | 15            | 15            | 15            | 15            | 15            | 15            |
| Samoa            |               |               |               |               |               |               | 1             | 1             | 1             | 1             |
| Solomon Is       | 1             | 1             | 1             | 1             | 1             | 1             | 1             | 1             | 1             | 1             |
| <b>S America</b> | <b>3 597</b>  | <b>3 424</b>  | <b>3 724</b>  | <b>4 038</b>  | <b>4 091</b>  | <b>4 185</b>  | <b>4 257</b>  | <b>4 850</b>  | <b>5 441</b>  | <b>5 984</b>  |
| Argentina        | 40            | 48            | 48            | 51            | 65            | 65            | 122           | 141           | 141           | 146           |
| Bolivia          | 1             | 1             | 1             |               |               |               |               |               |               |               |
| Brazil           | 2 264         | 2 539         | 2 846         | 3 135         | 3 158         | 3 251         | 3 298         | 3 800         | 4 392         | 4 584         |
| Chile            | 884           | 417           | 410           | 444           | 444           | 442           | 410           | 430           | 429           | 462           |
| Colombia         |               |               |               | 0             | 0             |               |               | 6             | 6             | 6             |
| Fr Guiana        | 2             | 2             | 2             | 2             | 2             | 5             | 5             | 5             | 5             | 5             |
| Guyana           | 0             | 0             | 0             | 0             | 16            | 16            | 16            | 16            | 16            | 16            |
| Suriname         | 2             | 2             | 2             | 2             | 2             | 2             | 2             | 2             | 2             | 2             |
| Uruguay          | 406           | 416           | 416           | 405           | 405           | 405           | 405           | 405           | 405           | 719           |
| Venezuela        |               |               |               |               |               |               |               | 46            | 46            | 46            |

**Other solid biofuels**  
**Autres biocarburants solides**  
**Otros biocombustibles sólidos**

| PROD (GWh)               | 2014           | 2015           | 2016           | 2017           | 2018           | 2019           | 2020           | 2021           | 2022           |
|--------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| <b>World</b>             | <b>239 738</b> | <b>250 543</b> | <b>260 981</b> | <b>276 504</b> | <b>286 068</b> | <b>304 139</b> | <b>321 952</b> | <b>352 820</b> | <b>362 037</b> |
| <b>Africa</b>            | <b>132</b>     | <b>139</b>     | <b>142</b>     | <b>151</b>     | <b>155</b>     | <b>151</b>     | <b>161</b>     | <b>182</b>     | <b>232</b>     |
| Congo DR                 | 0              | 0              | 0              | 6              | 8              | 8              | 8              | 8              | 8              |
| Congo Rep                | 18             | 18             | 18             | 18             | 18             | 18             | 18             | 18             | 18             |
| Eswatini                 |                |                |                |                |                |                |                |                |                |
| Ghana                    | 19             | 19             | 19             | 19             | 19             | 19             | 19             | 19             | 19             |
| Liberia                  | 0              | 0              | 0              | 0              | 0              | 0              | 0              | 0              | 0              |
| Madagascar               | 1              | 1              | 1              | 1              | 1              | 1              | 1              | 1              | 1              |
| Mali                     | 21             | 21             | 21             | 21             | 21             | 21             | 21             | 21             | 21             |
| Namibia                  | 0              | 0              | 0              | 0              | 0              | 0              | 0              | 0              | 0              |
| Nigeria                  | 6              | 6              | 10             | 13             | 15             | 12             | 26             | 46             | 44             |
| Reunion                  |                |                |                |                |                |                |                |                | 51             |
| Sierra Leone             | 4              | 4              | 4              | 4              | 4              | 4              | 4              | 4              | 4              |
| Tanzania                 | 62             | 68             | 68             | 68             | 68             | 68             | 64             | 65             | 65             |
| <b>Asia</b>              | <b>80 687</b>  | <b>83 384</b>  | <b>89 894</b>  | <b>100 704</b> | <b>105 432</b> | <b>120 506</b> | <b>134 786</b> | <b>153 140</b> | <b>170 688</b> |
| Bangladesh               |                | 2              | 2              | 2              | 2              | 2              | 2              | 2              | 2              |
| Cambodia                 | 48             | 46             | 40             | 31             | 21             | 22             | 20             | 18             | 16             |
| China                    | 23 137         | 27 090         | 32 244         | 38 129         | 40 833         | 48 100         | 59 700         | 67 200         | 71 600         |
| China HK SAR             | 43             | 29             | 50             | 47             | 46             | 46             | 47             | 52             | 52             |
| Chinese Taipei           | 250            | 211            | 161            | 150            | 162            | 153            | 144            | 180            | 118            |
| India                    | 32 945         | 28 524         | 17 898         | 16 334         | 18 280         | 20 302         | 19 701         | 20 685         | 22 603         |
| Indonesia                | 8 559          | 9 067          | 9 484          | 10 643         | 10 961         | 10 972         | 11 003         | 13 292         | 18 528         |
| Japan                    | 12 150         | 12 715         | 15 497         | 18 213         | 19 183         | 23 528         | 25 965         | 32 272         | 34 483         |
| Kazakhstan               | 12             | 12             | 11             | 17             | 26             | 26             | 27             | 27             |                |
| Korea Rep                | 266            | 666            | 3 674          | 4 119          | 5 165          | 5 415          | 5 534          | 5 220          | 6 794          |
| Lao PDR                  |                |                |                |                | 119            | 279            | 298            | 278            | 319            |
| Malaysia                 | 346            | 344            | 85             | 162            | 1 459          | 1 774          | 2 471          | 2 471          | 2 472          |
| Myanmar                  | 1              | 1              | 1              | 20             | 20             | 20             | 20             | 20             | 20             |
| Nepal                    | 1              | 1              | 1              | 1              | 1              | 1              |                |                |                |
| Pakistan                 | 35             | 35             | 179            | 179            | 179            | 179            | 179            | 179            | 179            |
| Philippines              | 33             | 93             | 189            | 299            | 266            | 257            | 279            | 334            | 430            |
| Singapore                | 99             | 151            | 155            | 157            | 159            | 162            | 159            | 223            | 171            |
| Sri Lanka                | 41             | 57             | 72             | 67             | 87             | 118            | 98             | 93             | 47             |
| Thailand                 | 2 683          | 4 303          | 10 114         | 12 094         | 8 424          | 9 111          | 9 102          | 10 557         | 12 816         |
| Viet Nam                 | 39             | 39             | 39             | 39             | 39             | 39             | 39             | 39             | 39             |
| <b>C America + Carib</b> | <b>18</b>      | <b>169</b>     | <b>402</b>     | <b>524</b>     | <b>445</b>     | <b>593</b>     | <b>463</b>     | <b>713</b>     | <b>708</b>     |
| Costa Rica               | 5              | 12             | 12             | 12             | 12             | 12             | 12             | 12             | 12             |
| Cuba                     | 1              | 1              | 1              | 1              | 1              | 1              | 1              | 1              | 1              |
| Dominican Rep            |                |                |                | 122            | 122            | 122            | 122            | 122            | 122            |
| El Salvador              |                |                |                |                | 8              |                |                |                |                |
| Guadeloupe               | 0              |                |                |                |                |                | 13             | 184            | 182            |
| Guatemala                |                | 2              | 1              | 0              | 1              | 1              | 1              | 1              | 1              |
| Honduras                 | 12             | 154            | 387            | 387            | 300            | 456            | 313            | 391            | 389            |
| Martinique               |                |                |                |                | 0              | 0              | 0              | 0              | 0              |
| St Lucia                 |                |                | 0              | 0              | 0              | 0              | 0              | 0              | 0              |
| <b>Eurasia</b>           | <b>66</b>      | <b>64</b>      | <b>106</b>     | <b>397</b>     | <b>547</b>     | <b>977</b>     | <b>1 735</b>   | <b>2 423</b>   | <b>3 090</b>   |
| Russian Fed              | 32             | 32             | 32             | 84             | 73             | 109            | 393            | 393            | 393            |
| Türkiye                  | 34             | 32             | 74             | 313            | 474            | 868            | 1 342          | 2 030          | 2 697          |
| <b>Europe</b>            | <b>83 414</b>  | <b>90 337</b>  | <b>90 762</b>  | <b>93 953</b>  | <b>99 045</b>  | <b>105 633</b> | <b>109 744</b> | <b>120 057</b> | <b>112 059</b> |
| Austria                  | 3 603          | 3 712          | 3 749          | 3 912          | 3 943          | 3 663          | 3 611          | 3 500          | 3 720          |
| Belarus                  | 87             | 104            | 112            | 117            | 131            | 263            | 373            | 337            | 322            |
| Belgium                  | 2 450          | 3 354          | 3 278          | 3 601          | 3 262          | 3 057          | 3 103          | 2 543          | 2 628          |
| Bosnia Herzg             |                |                |                | 1              | 1              | 1              | 5              | 36             | 24             |
| Bulgaria                 | 138            | 152            | 163            | 180            | 1 280          | 1 546          | 1 472          | 2 373          | 2 053          |
| Croatia                  | 50             | 89             | 194            | 216            | 313            | 477            | 559            | 660            | 720            |
| Czechia                  | 1 992          | 2 092          | 2 067          | 2 213          | 2 121          | 2 399          | 2 499          | 2 665          | 2 659          |
| Denmark                  | 2 959          | 2 796          | 3 483          | 4 797          | 4 417          | 4 353          | 4 302          | 7 133          | 5 679          |
| Estonia                  | 731            | 710            | 840            | 996            | 1 223          | 1 260          | 1 746          | 1 694          | 1 523          |
| Finland                  | 10 968         | 10 589         | 10 602         | 10 890         | 11 821         | 12 317         | 10 760         | 12 667         | 11 908         |
| France                   | 2 308          | 2 665          | 3 408          | 3 462          | 3 806          | 3 882          | 3 854          | 4 423          | 4 674          |
| Germany                  | 10 747         | 11 013         | 10 779         | 10 623         | 11 045         | 11 018         | 11 288         | 10 507         | 10 027         |
| Greece                   |                | 1              | 5              | 10             | 12             | 25             | 50             | 42             | 52             |
| Hungary                  | 1 702          | 1 660          | 1 493          | 1 645          | 1 798          | 1 769          | 1 664          | 1 775          | 1 693          |
| Ireland                  | 265            | 197            | 395            | 381            | 334            | 346            | 430            | 471            | 508            |
| Italy                    | 3 780          | 3 878          | 4 058          | 4 149          | 4 101          | 4 142          | 4 362          | 4 401          | 4 226          |
| Latvia                   | 319            | 378            | 427            | 525            | 570            | 575            | 520            | 570            | 552            |
| Lithuania                | 293            | 318            | 269            | 303            | 355            | 331            | 373            | 387            | 394            |
| Luxembourg               | 21             | 24             | 25             | 52             | 95             | 160            | 266            | 285            | 268            |
| Netherlands              | 2 099          | 1 926          | 1 909          | 1 776          | 1 489          | 2 845          | 5 777          | 7 842          | 6 720          |
| Norway                   | 12             | 11             | 28             | 24             | 16             | 24             | 23             | 29             | 32             |
| Poland                   | 7 782          | 7 696          | 5 632          | 4 112          | 4 179          | 5 124          | 5 355          | 5 294          | 5 934          |
| Portugal                 | 2 530          | 2 506          | 2 466          | 2 564          | 2 530          | 2 715          | 3 172          | 3 377          | 3 527          |
| Romania                  | 454            | 463            | 466            | 458            | 367            | 450            | 494            | 580            | 557            |
| Serbia                   | 3              | 4              | 3              |                | 8              | 16             | 15             | 16             |                |
| Slovakia                 | 916            | 1 099          | 1 129          | 1 080          | 1 070          | 1 130          | 1 120          | 1 325          | 1 049          |
| Slovenia                 | 125            | 131            | 136            | 155            | 142            | 151            | 155            | 169            | 162            |
| Spain                    | 3 821          | 4 014          | 4 048          | 4 365          | 4 221          | 3 885          | 4 541          | 5 095          | 4 932          |
| Sweden                   | 9 007          | 8 977          | 9 749          | 10 250         | 10 195         | 11 220         | 9 501          | 11 174         | 11 257         |
| Switzerland              | 298            | 215            | 254            | 352            | 312            | 333            | 424            | 553            | 582            |
| UK                       | 13 824         | 19 428         | 19 514         | 20 626         | 23 772         | 25 970         | 27 646         | 27 851         | 23 564         |
| Ukraine                  | 130            | 135            | 80             | 116            | 125            | 195            | 284            | 284            | 98             |
| <b>European Union</b>    | <b>69 072</b>  | <b>70 452</b>  | <b>70 782</b>  | <b>72 727</b>  | <b>74 700</b>  | <b>78 854</b>  | <b>81 004</b>  | <b>91 181</b>  | <b>87 704</b>  |

**Other solid biofuels**  
**Autres biocarburants solides**  
**Otros biocombustibles sólidos**

| <b>PROD (GWh)</b> | <b>2014</b>   | <b>2015</b>   | <b>2016</b>   | <b>2017</b>   | <b>2018</b>   | <b>2019</b>   | <b>2020</b>   | <b>2021</b>   | <b>2022</b>   |
|-------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| <b>N America</b>  | <b>54 855</b> | <b>54 419</b> | <b>56 477</b> | <b>56 308</b> | <b>54 881</b> | <b>52 033</b> | <b>48 914</b> | <b>49 098</b> | <b>47 111</b> |
| Canada            | 7 629         | 8 015         | 10 773        | 10 302        | 9 995         | 9 791         | 9 070         | 9 104         | 8 108         |
| Mexico            | 291           | 259           | 349           | 601           | 75            | 41            | 30            | 31            | 31            |
| USA               | 46 935        | 46 145        | 45 355        | 45 405        | 44 811        | 42 202        | 39 814        | 39 963        | 38 973        |
| <b>Oceanla</b>    | <b>999</b>    | <b>1 082</b>  | <b>1 181</b>  | <b>1 328</b>  | <b>1 355</b>  | <b>1 399</b>  | <b>1 331</b>  | <b>1 323</b>  | <b>1 219</b>  |
| Australia         | 410           | 508           | 641           | 787           | 821           | 852           | 779           | 743           | 676           |
| Fiji              | 23            | 12            | 2             | 15            | 31            | 35            | 48            | 45            | 55            |
| New Zealand       | 559           | 555           | 531           | 519           | 495           | 505           | 492           | 517           | 470           |
| Papua N Guin      | 4             | 4             | 4             | 5             | 5             | 4             | 4             | 4             | 4             |
| Samoa             |               |               |               |               |               | 5             | 10            | 10            |               |
| Solomon Is        | 3             | 3             | 3             | 3             | 3             | 3             | 3             | 3             | 3             |
| <b>S America</b>  | <b>19 567</b> | <b>20 949</b> | <b>22 017</b> | <b>23 140</b> | <b>24 208</b> | <b>22 847</b> | <b>24 817</b> | <b>25 884</b> | <b>26 931</b> |
| Argentina         | 395           | 451           | 469           | 557           | 588           | 664           | 1 274         | 1 307         | 1 287         |
| Brazil            | 12 806        | 13 786        | 14 491        | 15 500        | 16 914        | 15 769        | 17 283        | 17 900        | 19 977        |
| Chile             | 5 287         | 5 603         | 5 945         | 6 003         | 5 621         | 5 325         | 5 169         | 5 542         | 4 528         |
| Colombia          |               |               |               | 0             | 0             | 0             |               | 15            | 15            |
| Fr Guiana         | 12            | 12            | 12            | 10            | 11            | 14            | 17            | 45            | 50            |
| Guyana            | 0             | 0             | 0             | 0             | 5             | 5             | 5             | 5             | 5             |
| Suriname          | 3             | 6             | 6             | 6             | 6             | 6             | 6             | 6             | 6             |
| Uruguay           | 1 067         | 1 094         | 1 094         | 1 063         | 1 063         | 1 063         | 1 063         | 1 064         | 1 064         |

**Liquid biofuels**  
**Biocarburants liquides**  
**Biocarburantes líquidos**

| CAP (MW)              | 2014         | 2015         | 2016         | 2017         | 2018         | 2019         | 2020         | 2021         | 2022         | 2023         |
|-----------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| <b>World</b>          | <b>2 307</b> | <b>2 379</b> | <b>2 282</b> | <b>2 318</b> | <b>2 428</b> | <b>3 326</b> | <b>3 235</b> | <b>2 738</b> | <b>2 762</b> | <b>2 765</b> |
| <b>Africa</b>         | <b>1</b>     | <b>1</b>     | <b>1</b>     | <b>1</b>     | <b>42</b>    | <b>42</b>    | <b>42</b>    | <b>42</b>    | <b>42</b>    | <b>42</b>    |
| Burkina Faso          | 0 u          | 0 u          | 0 e          | 0 e          | 0 e          | 0 e          | 0 e          | 0 e          | 0 e          | 0 e          |
| Liberia               |              |              |              | 0 u          | 0 e          | 0 e          | 0 e          | 0 e          | 0 e          | 0 e          |
| Mali                  | 0 e          | 0 e          | 0 e          | 0 e          | 0 e          | 0 e          | 0 e          | 0 e          | 0 e          | 0 e          |
| Reunion               |              |              |              |              | 41 o         | 41 o         | 41 o         | 41 o         | 41 e         | 41 e         |
| Tanzania              | 0 u          | 0 e          | 0 e          | 0 e          | 0 e          | 0 e          | 0 e          | 0 e          | 0 e          | 0 e          |
| <b>Asia</b>           | <b>356</b>   | <b>361</b>   | <b>360</b>   | <b>359</b>   | <b>348</b>   | <b>1 020</b> | <b>950</b>   | <b>487</b>   | <b>487</b>   | <b>490</b>   |
| Korea Rep             | 356          | 361          | 360          | 359          | 348          | 1 020        | 950          | 487          | 487          | 490 o        |
| <b>Eurasia</b>        | <b>7</b>     | <b>7</b>     | <b>7</b>     | <b>12</b>    | <b>19</b>    | <b>19</b>    | <b>23</b>    | <b>51</b>    | <b>65</b>    | <b>65</b>    |
| Türkiye               | 7            | 7            | 7            | 12           | 19           | 19           | 23           | 51           | 65           | 65 e         |
| <b>Europe</b>         | <b>1 797</b> | <b>1 865</b> | <b>1 792</b> | <b>1 813</b> | <b>1 836</b> | <b>2 175</b> | <b>2 150</b> | <b>2 088</b> | <b>2 085</b> | <b>2 085</b> |
| Austria               | 1            | 3            | 3            | 1            | 1            | 1            | 0            | 0            | 0            | 0 o          |
| Belgium               | 51           | 49           | 45           | 45           | 45           | 45 e         | 23           | 19           | 30           | 30 o         |
| Denmark               |              | 1            | 0            | 1            | 1            |              |              |              |              |              |
| France                |              | 3            | 4            | 0            | 0            | 0            | 15           | 10           | 11           | 11 e         |
| Germany               | 232          | 232          | 231          | 230          | 230          | 231          | 231 e        | 201          | 196          | 196 e        |
| Italy                 | 990          | 1 000        | 993 e        | 987          | 971          | 948          | 932          | 919          | 909          | 909 e        |
| Poland                | 0 e          | 0 e          | 0 e          | 0 e          | 0 e          | 0 e          | 0 e          | 0 e          | 0 e          | 0 e          |
| Slovenia              | 1            | 1            | 1            | 1            | 1            | 1 o          | 1            | 1 e          | 1            | 1 e          |
| Spain                 |              |              |              |              | 6            | 6            | 6            | 6            | 6 o          | 6 e          |
| Sweden                | 522          | 576          | 515          | 547          | 535          | 895          | 895          | 895          | 895          | 895 e        |
| UK                    |              |              |              |              | 45           | 47           | 46           | 36           | 36           | 36           |
| <b>European Union</b> | <b>1 797</b> | <b>1 865</b> | <b>1 792</b> | <b>1 813</b> | <b>1 832</b> | <b>2 169</b> | <b>2 145</b> | <b>2 093</b> | <b>2 090</b> | <b>2 090</b> |
| <b>N America</b>      | <b>121</b>   | <b>115</b>   | <b>115</b>   | <b>125</b>   | <b>175</b>   | <b>62</b>    | <b>62</b>    | <b>62</b>    | <b>62</b>    | <b>62</b>    |
| USA                   | 121 o        | 115 o        | 115 o        | 125 o        | 175 o        | 62 o         | 62 o         | 62 o         | 62 o         | 62 o         |
| <b>Oceania</b>        | <b>5</b>     | <b>3</b>     |
| Fiji                  | 0 u          | 0 u          | 0 u          | 0 u          | 0 u          | 0 e          | 0 e          | 0 e          | 0 e          | 0 e          |
| New Caledon           | 0 o          | 0 o          | 0 o          | 0 o          | 0 o          | 0 e          | 0 e          | 0 e          | 0 e          | 0 e          |
| Samoa                 | 2 e          |              |              |              |              |              |              |              |              |              |
| Solomon Is            | 0 e          | 0 e          | 0 e          | 0 e          | 0 e          | 0 e          | 0 e          | 0 e          | 0 e          | 0 e          |
| Vanuatu               | 3 e          | 3 e          | 3 e          | 3 e          | 3 e          | 3 e          | 3 e          | 3 e          | 3 e          | 3 e          |
| <b>S America</b>      | <b>19</b>    | <b>27</b>    | <b>4</b>     | <b>5</b>     | <b>5</b>     | <b>5</b>     | <b>5</b>     | <b>5</b>     | <b>18</b>    | <b>18</b>    |
| Brazil                | 19 e         | 27 e         | 4 o          | 5 o          | 5 o          | 5 o          | 5 o          | 5 o          | 18 o         | 18 o         |
| Ecuador               |              |              |              |              |              |              |              |              |              |              |
| Uruguay               |              |              |              |              |              |              |              |              |              |              |

**Liquid biofuels**  
**Biocarburants liquides**  
**Biocarburantes líquidos**

| PROD (GWh)            | 2014         | 2015         | 2016         | 2017         | 2018         | 2019         | 2020         | 2021         | 2022         |
|-----------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| <b>World</b>          | <b>6 419</b> | <b>7 870</b> | <b>7 344</b> | <b>6 788</b> | <b>7 383</b> | <b>8 453</b> | <b>8 066</b> | <b>7 179</b> | <b>5 756</b> |
| <b>Africa</b>         | <b>1</b>     | <b>2</b>     | <b>2</b>     | <b>2</b>     | <b>4</b>     | <b>8</b>     | <b>6</b>     | <b>7</b>     | <b>7</b>     |
| Burkina Faso          | 0 u          | 0 u          | 0 e          | 0 e          | 0 e          | 0 e          | 0 e          | 0 e          | 0 e          |
| Liberia               |              |              |              | 0 e          | 0 e          | 0 e          | 0 e          | 0 e          | 0 e          |
| Mali                  | 1 e          | 1 e          | 1 e          | 1 e          | 1 e          | 1 e          | 1 e          | 1 e          | 1 e          |
| Reunion               |              |              |              |              | 2 o          | 7 o          | 4 o          | 6 o          | 5 o          |
| Tanzania              | 0 e          | 0 e          | 0 e          | 0 e          | 0 e          | 0 e          | 0 e          | 0 e          | 0 e          |
| <b>Asia</b>           | <b>537</b>   | <b>1 233</b> | <b>1 455</b> | <b>1 242</b> | <b>1 610</b> | <b>2 295</b> | <b>1 918</b> | <b>1 444</b> | <b>1 380</b> |
| Korea Rep             | 537          | 1 233        | 1 455        | 1 242        | 1 610        | 2 295        | 1 918        | 1 444        | 1 380        |
| <b>Eurasia</b>        | <b>2</b>     | <b>1</b>     | <b>1</b>     | <b>2</b>     | <b>5</b>     | <b>22</b>    | <b>40</b>    | <b>56</b>    | <b>45</b>    |
| Türkiye               | 2            | 1            | 1            | 2            | 5            | 22           | 40           | 56           | 45 o         |
| <b>Europe</b>         | <b>4 907</b> | <b>5 621</b> | <b>5 318</b> | <b>5 023</b> | <b>4 996</b> | <b>5 311</b> | <b>5 225</b> | <b>4 630</b> | <b>3 544</b> |
| Austria               | 0            | 0            | 1            | 0            | 0            | 0            | 0            | 0            | 0            |
| Belgium               | 90           | 130          | 31           | 36           | 74           | 71           | 25           | 15           | 71           |
| Denmark               |              | 6            | 3            | 1            | 1            |              |              |              |              |
| Finland               |              | 2            | 4            | 8            | 6            | 2            |              | 1            |              |
| France                |              | 1            | 2            | 0            | 0            | 0            | 5            | 8            | 8            |
| Germany               | 334          | 426          | 490          | 437          | 382          | 330          | 307          | 210          | 98           |
| Italy                 | 4 342        | 4 894        | 4 710        | 4 464        | 4 291        | 4 677        | 4 667        | 4 109        | 3 088        |
| Norway                |              |              |              |              | 0            | 0            | 0            | 1            | 1 o          |
| Poland                | 88           | 130          | 29           | 36           | 36           | 36           | 36           | 36           | 36 o         |
| Slovenia              | 4            | 4            | 3            | 5            | 6            | 5            | 6            | 6            | 7 o          |
| Spain                 |              |              |              |              | 12           | 13           | 13           | 14           | 13 o         |
| Sweden                | 49           | 28           | 46           | 37           | 52           | 32           | 20           | 83           | 75 o         |
| UK                    |              |              |              |              | 135 u        | 144 u        | 146 u        | 149 u        | 147 u        |
| <b>European Union</b> | <b>4 907</b> | <b>5 621</b> | <b>5 318</b> | <b>5 023</b> | <b>4 863</b> | <b>5 173</b> | <b>5 083</b> | <b>4 487</b> | <b>3 401</b> |
| <b>N America</b>      | <b>208</b>   | <b>223</b>   | <b>210</b>   | <b>217</b>   | <b>351</b>   | <b>358</b>   | <b>298</b>   | <b>309</b>   | <b>299</b>   |
| USA                   | 208 o        | 223 o        | 210 o        | 217 o        | 351 o        | 358 o        | 298 o        | 309 o        | 299 o        |
| <b>Oceania</b>        | <b>5</b>     | <b>5</b>     | <b>4</b>     | <b>1</b>     | <b>1</b>     | <b>2</b>     | <b>2</b>     | <b>1</b>     | <b>0</b>     |
| Fiji                  | 0 e          | 0 e          | 0 e          | 0 e          | 0 e          | 0 e          | 0 e          | 0 e          | 0 e          |
| New Caledon           | 0 o          | 0 o          | 1 o          | 0 o          | 1 o          | 1 o          | 0 o          | 0 o          | 0 o          |
| Samoa                 | 1 o          |              |              |              |              |              |              |              |              |
| Solomon Is            | 1 o          | 1 o          | 1 o          | 1 o          |              |              |              |              |              |
| Vanuatu               | 3 o          | 4 o          | 2 o          |              | 1 o          | 1 o          | 1            |              |              |
| <b>S America</b>      | <b>758</b>   | <b>784</b>   | <b>354</b>   | <b>300</b>   | <b>415</b>   | <b>456</b>   | <b>577</b>   | <b>731</b>   | <b>480</b>   |
| Brazil                | 758 e        | 784 e        | 354 e        | 300 e        | 415 e        | 456 e        | 577 e        | 731 e        | 480          |
| Ecuador               | 0 o          | 0 o          | 0 o          | 0 o          |              |              |              |              |              |

# Biogas

## Biogaz

### Biogás

| CAP (MW)                 | 2014          | 2015          | 2016          | 2017          | 2018          | 2019          | 2020          | 2021          | 2022          | 2023          |
|--------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| <b>World</b>             | <b>15 196</b> | <b>15 877</b> | <b>16 851</b> | <b>17 470</b> | <b>18 512</b> | <b>19 320</b> | <b>20 205</b> | <b>20 382</b> | <b>20 827</b> | <b>21 385</b> |
| <b>Africa</b>            | <b>11</b>     | <b>26</b>     | <b>35</b>     | <b>38</b>     | <b>43</b>     | <b>54</b>     | <b>54</b>     | <b>99</b>     | <b>99</b>     | <b>107</b>    |
| Burkina Faso             |               | 1             | 1             | 1             | 1             | 1             | 1             | 1             | 1             | 1             |
| Egypt                    |               | 1             | 1             | 1             | 1             | 12            | 12            | 56            | 56            | 64            |
| Gabon                    |               | 0             | 0             | 0             | 0             | 0             | 0             | 0             | 1             | 1             |
| Ghana                    |               | 0             | 0             | 0             | 0             | 0             | 0             | 0             | 0             | 0             |
| Kenya                    | 0             | 3             | 3             | 2             | 2             | 2             | 2             | 2             | 2             | 2             |
| Mali                     | 0             | 0             | 0             | 0             | 0             | 0             | 0             | 0             | 0             | 0             |
| Mauritius                | 3             | 3             | 3             | 3             | 3             | 3             | 3             | 3             | 3             | 3             |
| Morocco                  | 1             | 5             | 7             | 7             | 7             | 7             | 7             | 7             | 7             | 7             |
| Nigeria                  | 0             | 0             | 0             | 0             | 0             | 0             | 0             | 0             | 0             | 0             |
| Reunion                  | 2             | 3             | 4             | 4             | 4             | 4             | 4             | 4             | 4             | 4             |
| South Africa             | 4             | 9             | 14            | 18            | 23            | 23            | 23            | 23            | 23            | 23            |
| Tanzania                 | 1             | 1             | 1             | 1             | 1             | 1             | 1             | 1             | 1             | 1             |
| <b>Asia</b>              | <b>849</b>    | <b>975</b>    | <b>1 159</b>  | <b>1 376</b>  | <b>1 631</b>  | <b>1 881</b>  | <b>2 029</b>  | <b>2 370</b>  | <b>2 533</b>  | <b>2 818</b>  |
| Bangladesh               | 4             | 4             | 5             | 5             | 5             | 5             | 5             | 5             | 5             | 5             |
| Cambodia                 | 2             | 2             | 2             | 2             | 2             | 2             | 2             | 2             | 2             | 2             |
| China                    | 310           | 331           | 350           | 454           | 630           | 799           | 890           | 1 110         | 1 230         | 1 490         |
| China HK SAR             |               |               | 17            | 17            | 17            | 24            | 24            | 24            | 30            | 30            |
| Chinese Taipei           |               |               | 1             | 1             | 1             | 1             | 1             | 1             | 1             | 1             |
| India                    | 7             | 10            | 10            | 13            | 14            | 14            | 14            | 14            | 14            | 14            |
| Indonesia                | 19            | 55            | 64            | 101           | 109           | 112           | 118           | 135           | 149           | 156           |
| Japan                    | 15            | 23            | 34            | 47            | 59            | 70            | 78            | 88            | 94            | 105           |
| Kazakhstan               | 0             | 0             | 0             | 1             | 1             | 2             | 8             | 8             | 8             | 14            |
| Korea Rep                | 121           | 113           | 129           | 136           | 140           | 139           | 140           | 142           | 142           | 143           |
| Lao PDR                  |               |               |               |               | 0             | 0             | 0             | 0             | 0             | 0             |
| Malaysia                 | 18            | 20            | 58            | 62            | 70            | 103           | 111           | 124           | 124           | 124           |
| Myanmar                  | 1             | 1             | 1             | 1             | 1             | 1             | 1             | 1             | 1             | 1             |
| Nepal                    |               |               |               | 0             | 0             | 0             | 0             | 1             | 1             | 1             |
| Pakistan                 | 9             | 9             | 9             | 9             | 9             | 9             | 9             | 9             | 9             | 9             |
| Philippines              | 31            | 31            | 40            | 42            | 54            | 54            | 56            | 56            | 56            | 56            |
| Sri Lanka                | 0             | 0             | 0             | 0             | 0             | 0             | 0             | 0             | 0             | 0             |
| Thailand                 | 312           | 373           | 435           | 475           | 505           | 530           | 557           | 635           | 652           | 652           |
| Timor Leste              | 0             | 0             | 0             | 0             | 0             | 0             | 0             | 0             | 0             | 0             |
| Viet Nam                 | 2             | 2             | 4             | 11            | 14            | 14            | 14            | 14            | 14            | 14            |
| <b>C America + Carib</b> | <b>13</b>     | <b>19</b>     | <b>26</b>     | <b>41</b>     | <b>42</b>     | <b>42</b>     | <b>45</b>     | <b>46</b>     | <b>67</b>     | <b>67</b>     |
| Bahamas                  | 1             | 1             | 1             | 1             | 1             | 1             | 1             | 1             | 1             | 1             |
| Costa Rica               | 2             | 5             | 5             | 5             | 5             | 5             | 5             | 5             | 5             | 5             |
| Cuba                     | 1             | 1             | 1             | 1             | 1             | 1             | 1             | 2             | 15            | 15            |
| Dominican Rep            | 1             | 2             | 2             | 2             | 2             | 2             | 2             | 2             | 4             | 4             |
| El Salvador              | 6             | 7             | 7             | 7             | 7             | 7             | 7             | 6             | 8             | 8             |
| Guadeloupe               | 0             | 0             | 0             | 2             | 4             | 4             | 4             | 4             | 4             | 4             |
| Guatemala                | 2             | 2             | 6             | 6             | 6             | 6             | 6             | 6             | 6             | 6             |
| Honduras                 | 1             | 1             | 4             | 4             | 4             | 4             | 4             | 4             | 4             | 4             |
| Martinique               |               | 1             | 1             | 1             | 1             | 1             | 1             | 1             | 1             | 1             |
| Nicaragua                |               |               | 2             | 2             | 2             | 2             | 2             | 2             | 2             | 2             |
| Panama                   |               |               |               | 8             | 8             | 8             | 8             | 8             | 11            | 11            |
| Puerto Rico              |               |               | 2             | 2             | 2             | 2             | 5             | 5             | 5             | 5             |
| <b>Eurasia</b>           | <b>204</b>    | <b>253</b>    | <b>298</b>    | <b>378</b>    | <b>440</b>    | <b>549</b>    | <b>742</b>    | <b>988</b>    | <b>1 126</b>  | <b>1 266</b>  |
| Azerbaijan               |               | 1             | 1             | 1             | 1             | 1             | 1             | 1             | 1             | 1             |
| Türkiye                  | 204           | 252           | 297           | 377           | 438           | 548           | 741           | 987           | 1 126         | 1 266         |

# Biogas

## Biogaz

### Biogás

| CAP (MW)              | 2014          | 2015          | 2016          | 2017          | 2018          | 2019          | 2020          | 2021          | 2022          | 2023          |
|-----------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| <b>Europe</b>         | <b>10 845</b> | <b>11 296</b> | <b>11 778</b> | <b>12 200</b> | <b>12 921</b> | <b>13 340</b> | <b>13 881</b> | <b>13 538</b> | <b>13 686</b> | <b>13 810</b> |
| Austria               | 189           | 191           | 202           | 180           | 175           | 164           | 165           | 166           | 166           | 166           |
| Belarus               | 22            | 22            | 27            | 28            | 33            | 38            | 37            | 37            | 39            | 40            |
| Belgium               | 181           | 179           | 188           | 183           | 190           | 197           | 199           | 204           | 205           | 205           |
| Bosnia Herzg          |               |               | 1             | 1             | 1             | 1             | 1             | 1             | 2             | 2             |
| Bulgaria              | 10            | 20            | 38            | 29            | 36            | 33            | 33            | 33            | 35            | 35            |
| Croatia               | 17            | 28            | 37            | 45            | 51            | 52            | 55            | 59            | 59            | 59            |
| Cyprus                | 10            | 10            | 10            | 10            | 13            | 13            | 13            | 13            | 14            | 14            |
| Czechia               | 367           | 368           | 369           | 372           | 369           | 369           | 366           | 370           | 378           | 383           |
| Denmark               | 96            | 104           | 107           | 108           | 108           | 121           | 131           | 128           | 125           | 125           |
| Estonia               | 8             | 11            | 11            | 11            | 9             | 8             | 11            | 11            | 11            | 11            |
| Faroe Islands         |               |               |               |               |               | 0             | 2             | 2             | 2             | 2             |
| Finland               | 100           | 102           | 114           | 116           | 116           | 116           | 116           | 116           | 116           | 116           |
| France                | 356           | 398           | 426           | 464           | 490           | 526           | 553           | 572           | 580           | 580           |
| Germany               | 5 437         | 5 643         | 5 850         | 6 147         | 6 784         | 7 081         | 7 494         | 6 963         | 7 019         | 7 119         |
| Greece                | 47            | 49            | 56            | 62            | 70            | 75            | 83            | 92            | 111           | 111           |
| Hungary               | 63            | 72            | 76            | 82            | 76            | 79            | 85            | 85            | 84            | 84            |
| Ireland               | 53            | 53            | 56            | 56            | 57            | 59            | 59            | 60            | 60            | 60            |
| Italy                 | 1 336         | 1 336         | 1 352         | 1 372         | 1 375         | 1 382         | 1 379         | 1 382         | 1 387         | 1 429         |
| Latvia                | 58            | 60            | 62            | 60            | 61            | 60            | 57            | 53            | 53            | 53            |
| Lithuania             | 20            | 21            | 25            | 25            | 35            | 35            | 36            | 37            | 37            | 1             |
| Luxembourg            | 10            | 12            | 12            | 12            | 12            | 12            | 12            | 12            | 11            | 14            |
| Malta                 | 3             | 3             | 5             | 5             | 5             | 5             | 5             | 5             | 3             | 3             |
| Moldova Rep           | 3             | 3             | 3             | 6             | 6             | 6             | 7             | 7             | 15            | 15            |
| Netherlands           | 237           | 244           | 224           | 224           | 207           | 201           | 205           | 258           | 256           | 256           |
| North Macedonia       |               | 4             | 5             | 7             | 7             | 8             | 8             | 8             | 11            | 11            |
| Norway                | 17            | 17            | 10            | 10            | 10            | 7             | 11            | 7             | 7             | 7             |
| Poland                | 187           | 216           | 225           | 229           | 225           | 233           | 261           | 251           | 278           | 292           |
| Portugal              | 66            | 66            | 68            | 70            | 71            | 72            | 71            | 73            | 73            | 72            |
| Romania               | 15            | 14            | 16            | 22            | 22            | 20            | 30            | 32            | 23            | 23            |
| Serbia                | 5             | 5             | 10            | 13            | 17            | 26            | 29            | 34            | 36            | 36            |
| Slovakia              | 78            | 91            | 93            | 91            | 89            | 82            | 82            | 81            | 77            | 77            |
| Slovenia              | 31            | 32            | 29            | 27            | 27            | 25            | 30            | 30            | 30            | 30            |
| Spain                 | 243           | 245           | 248           | 251           | 258           | 267           | 269           | 271           | 272           | 272           |
| Sweden                | 2             | 2             | 2             | 2             | 2             | 2             | 2             | 2             | 2             | 2             |
| Switzerland           | 32            | 29            | 29            | 30            | 30            | 30            | 31            | 31            | 31            | 31            |
| UK                    | 1 531         | 1 628         | 1 773         | 1 818         | 1 838         | 1 844         | 1 848         | 1 927         | 1 957         | 1 954         |
| Ukraine               | 15            | 18            | 21            | 34            | 46            | 93            | 103           | 123           | 123           | 123           |
| <b>European Union</b> | <b>9 222</b>  | <b>9 574</b>  | <b>9 905</b>  | <b>10 261</b> | <b>10 943</b> | <b>11 298</b> | <b>11 816</b> | <b>11 371</b> | <b>11 473</b> | <b>11 599</b> |
| <b>Middle East</b>    | <b>42</b>     | <b>62</b>     | <b>69</b>     | <b>70</b>     | <b>68</b>     | <b>68</b>     | <b>69</b>     | <b>69</b>     | <b>81</b>     | <b>82</b>     |
| Iran IR               | 11            | 11            | 11            | 11            | 11            | 11            | 11            | 11            | 14            | 14            |
| Israel                | 14            | 25            | 25            | 25            | 25            | 25            | 26            | 26            | 26            | 26            |
| Jordan                | 4             | 13            | 13            | 13            | 13            | 13            | 13            | 13            | 13            | 13            |
| Lebanon               | 2             | 2             | 9             | 9             | 7             | 7             | 7             | 7             | 7             | 7             |
| Palestine             |               |               | 0             | 0             | 0             | 0             | 0             | 0             | 0             | 0             |
| Qatar                 | 4             | 4             | 4             | 4             | 4             | 4             | 4             | 4             | 4             | 4             |
| Syrian AR             | 7             | 7             | 7             | 7             | 7             | 7             | 7             | 7             | 7             | 7             |
| United Arab Em        | 1             | 1             | 1             | 1             | 1             | 1             | 1             | 1             | 9             | 11            |
| <b>N America</b>      | <b>2 707</b>  | <b>2 685</b>  | <b>2 694</b>  | <b>2 752</b>  | <b>2 708</b>  | <b>2 633</b>  | <b>2 525</b>  | <b>2 391</b>  | <b>2 314</b>  | <b>2 294</b>  |
| Canada                | 271           | 272           | 272           | 277           | 277           | 277           | 283           | 283           | 283           | 283           |
| Mexico                | 39            | 40            | 47            | 57            | 55            | 55            | 57            | 64            | 66            | 70            |
| USA                   | 2 397         | 2 373         | 2 375         | 2 419         | 2 376         | 2 301         | 2 184         | 2 043         | 1 964         | 1 941         |
| <b>Oceania</b>        | <b>279</b>    | <b>282</b>    | <b>241</b>    | <b>240</b>    | <b>240</b>    | <b>240</b>    | <b>247</b>    | <b>247</b>    | <b>247</b>    | <b>247</b>    |
| Australia             | 226           | 228           | 190           | 190           | 190           | 190           | 197           | 197           | 197           | 197           |
| New Zealand           | 49            | 50            | 47            | 46            | 46            | 46            | 46            | 46            | 46            | 46            |
| Papua N Guin          | 4             | 4             | 4             | 4             | 4             | 4             | 4             | 4             | 4             | 4             |
| Samoa                 |               |               |               |               | 0             | 0             | 0             | 0             | 0             | 0             |
| <b>S America</b>      | <b>247</b>    | <b>279</b>    | <b>551</b>    | <b>375</b>    | <b>419</b>    | <b>514</b>    | <b>614</b>    | <b>633</b>    | <b>674</b>    | <b>694</b>    |
| Argentina             | 19            | 19            | 19            | 24            | 25            | 46            | 57            | 68            | 72            | 80            |
| Bolivia               |               |               | 5             |               |               |               |               |               |               | 5             |
| Brazil                | 178           | 196           | 460           | 265           | 305           | 375           | 459           | 465           | 502           | 509           |
| Chile                 | 42            | 51            | 53            | 58            | 59            | 60            | 60            | 61            | 61            | 60            |
| Colombia              |               |               | 4             | 4             | 4             | 4             | 9             | 9             | 9             | 9             |
| Ecuador               |               |               | 2             | 7             | 7             | 7             | 7             | 8             | 8             | 8             |
| Paraguay              | 0             | 0             | 0             | 0             | 0             | 2             | 2             | 2             | 2             | 2             |
| Peru                  | 5             | 10            | 10            | 10            | 10            | 10            | 10            | 10            | 10            | 10            |
| Uruguay               | 2             | 2             | 2             | 2             | 9             | 9             | 9             | 9             | 9             | 9             |

# Biogas

## Biogaz

### Biogás

| PROD (GWh)               | 2014          | 2015          | 2016          | 2017          | 2018          | 2019          | 2020          | 2021          | 2022          |
|--------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| <b>World</b>             | <b>80 340</b> | <b>84 714</b> | <b>86 934</b> | <b>88 903</b> | <b>91 252</b> | <b>92 503</b> | <b>94 339</b> | <b>95 533</b> | <b>93 502</b> |
| <b>Africa</b>            | <b>53</b>     | <b>68</b>     | <b>83</b>     | <b>116</b>    | <b>128</b>    | <b>158</b>    | <b>163</b>    | <b>159</b>    | <b>152</b>    |
| Burkina Faso             |               |               |               | 1             | 1             | 1             | 1             | 1             | 1             |
| Egypt                    |               |               |               |               |               | 30            | 30            | 30            | 30            |
| Gabon                    |               | 1             | 1             | 1             | 1             | 1             | 1             | 1             |               |
| Ghana                    |               |               |               | 0             | 0             | 0             | 0             |               | 0             |
| Kenya                    | 0             | 0             | 0             | 1             | 0             | 0             | 0             | 0             | 0             |
| Mali                     | 0             | 0             | 0             | 0             | 0             | 0             | 0             | 0             | 0             |
| Mauritius                | 21            | 20            | 19            | 17            | 23            | 20            | 25            | 19            | 17            |
| Morocco                  | 5             | 5             | 11            | 40            | 40            | 40            | 40            | 40            | 40            |
| Nigeria                  | 0             | 0             | 0             | 0             | 0             | 0             | 0             | 0             | 0             |
| Reunion                  | 13            | 17            | 17            | 13            | 13            | 15            | 16            | 18            | 14            |
| South Africa             | 9             | 19            | 30            | 39            | 45            | 45            | 45            | 45            | 45            |
| Tanzania                 | 4             | 4             | 4             | 4             | 4             | 4             | 4             | 4             | 4             |
| <b>Asia</b>              | <b>3 081</b>  | <b>3 789</b>  | <b>4 050</b>  | <b>4 475</b>  | <b>7 228</b>  | <b>8 264</b>  | <b>8 552</b>  | <b>9 478</b>  | <b>9 511</b>  |
| Bangladesh               | 2             | 2             | 2             | 2             | 2             | 2             | 2             | 2             | 2             |
| Cambodia                 | 6             | 6             | 6             | 6             | 6             | 6             | 6             | 6             | 6             |
| China                    | 1 610         | 1 691         | 1 863         | 2 424         | 3 204         | 3 800         | 4 100         | 4 700         | 5 400         |
| China HK SAR             | 43            | 43            | 40            | 41            | 43            | 47            | 44            | 89            | 98            |
| Chinese Taipei           |               |               | 36            | 44            | 38            | 23            | 17            | 61            | 40            |
| India                    | 16            | 22            | 24            | 29            | 31            | 32            | 32            | 32            | 32            |
| Indonesia                | 51            | 144           | 169           | 264           | 584           | 618           | 799           | 940           | 1 044         |
| Japan                    | 15            | 15            |               |               |               | 4             | 8             | 7             | 10            |
| Kazakhstan               | 32            | 28            | 35            | 33            | 1             | 3             | 8             | 3             | 0             |
| Korea Rep                | 659           | 588           | 519           | 568           | 578           | 591           | 683           | 623           | 746           |
| Lao PDR                  |               |               |               |               | 1             | 1             | 1             | 1             | 1             |
| Malaysia                 | 50            | 63            | 107           | 216           | 252           | 314           | 385           | 385           | 385           |
| Myanmar                  | 2             | 2             | 2             | 2             | 2             | 2             | 2             | 2             | 2             |
| Nepal                    |               |               |               | 0             | 1             | 1             | 1             | 3             | 3             |
| Pakistan                 | 19            | 19            | 19            | 19            | 19            | 19            | 19            | 19            | 19            |
| Philippines              | 90            | 90            | 121           | 121           | 121           | 121           | 121           | 121           | 118           |
| Sri Lanka                |               |               | 0             | 0             | 0             | 0             | 0             | 0             | 0             |
| Thailand                 | 488           | 1 042         | 1 099         | 683           | 2 325         | 2 652         | 2 244         | 2 495         | 1 569         |
| Timor Leste              | 0             | 0             | 0             | 0             | 0             | 0             | 0             | 0             | 0             |
| Viet Nam                 |               |               | 1             | 28            | 35            | 35            | 35            | 35            | 35            |
| <b>C America + Carib</b> | <b>56</b>     | <b>84</b>     | <b>87</b>     | <b>122</b>    | <b>137</b>    | <b>155</b>    | <b>175</b>    | <b>258</b>    | <b>268</b>    |
| Bahamas                  | 6             | 6             | 6             | 6             | 6             | 6             | 6             | 6             | 6             |
| Costa Rica               | 4             | 7             | 7             | 7             | 7             | 7             | 7             | 7             | 7             |
| Cuba                     |               |               |               |               | 3             | 16            | 108           | 116           |               |
| Dominican Rep            | 10            | 14            | 16            | 16            | 16            | 14            | 14            | 14            | 22            |
| El Salvador              | 36            | 46            | 33            | 37            | 31            | 32            | 29            | 23            | 25            |
| Guadeloupe               | 0             | 0             | 0             | 3             | 12            | 17            | 16            | 17            | 16            |
| Guatemala                | 0             | 5             | 9             | 18            | 26            | 25            | 30            | 27            | 19            |
| Honduras                 | 0             | 5             | 6             | 9             | 5             | 4             | 3             | 5             | 8             |
| Martinique               | 0             | 1             | 1             | 1             | 1             | 1             | 2             | 1             | 1             |
| Nicaragua                |               |               | 3             | 5             | 5             | 12            | 12            | 13            | 13            |
| Panama                   |               |               |               | 9             | 18            | 19            | 30            | 22            | 20            |
| Puerto Rico              |               | 0             | 7             | 11            | 11            | 15            | 9             | 14            | 14            |
| <b>Eurasia</b>           | <b>1 047</b>  | <b>1 208</b>  | <b>1 560</b>  | <b>1 781</b>  | <b>2 159</b>  | <b>2 598</b>  | <b>3 047</b>  | <b>4 082</b>  | <b>4 602</b>  |
| Azerbaijan               |               |               |               |               | 0             |               |               |               |               |
| Türkiye                  | 1 047         | 1 208         | 1 560         | 1 781         | 2 159         | 2 598         | 3 047         | 4 082         | 4 602         |

# Biogas

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### Biogás

| <b>PROD (GWh)</b>     | <b>2014</b>   | <b>2015</b>   | <b>2016</b>   | <b>2017</b>   | <b>2018</b>   | <b>2019</b>   | <b>2020</b>   | <b>2021</b>   | <b>2022</b>   |
|-----------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| <b>Europe</b>         | <b>58 209</b> | <b>61 535</b> | <b>63 400</b> | <b>64 180</b> | <b>63 579</b> | <b>63 471</b> | <b>64 627</b> | <b>63 997</b> | <b>62 849</b> |
| Austria               | 613           | 634           | 666           | 670           | 628           | 612           | 629           | 602           | 594           |
| Belarus               | 34            | 36            | 35            | 46            | 43            | 41            | 205           | 244           | 196           |
| Belgium               | 872           | 959           | 993           | 938           | 945           | 947           | 1 015         | 976           | 1 013         |
| Bosnia Herzg          |               |               | 1             | 5             | 7             | 7             | 8             | 6             | 7             |
| Bulgaria              | 62            | 120           | 190           | 216           | 212           | 231           | 226           | 216           | 191           |
| Croatia               | 115           | 177           | 237           | 310           | 355           | 401           | 419           | 440           | 409           |
| Cyprus                | 51            | 51            | 52            | 52            | 57            | 58            | 61            | 60            | 58            |
| Czechia               | 2 583         | 2 611         | 2 590         | 2 639         | 2 607         | 2 528         | 2 596         | 2 593         | 2 617         |
| Denmark               | 451           | 461           | 498           | 567           | 611           | 626           | 673           | 615           | 574           |
| Estonia               | 27            | 50            | 45            | 42            | 38            | 39            | 31            | 16            | 6             |
| Faroe Islands         |               |               |               |               |               |               | 1             | 7             | 5             |
| Finland               | 350           | 358           | 398           | 406           | 420           | 362           | 297           | 329           | 266           |
| France                | 1 596         | 1 834         | 1 991         | 2 114         | 2 370         | 2 590         | 2 767         | 3 019         | 2 985         |
| Germany               | 31 086        | 33 098        | 33 711        | 33 879        | 33 181        | 32 952        | 33 498        | 32 356        | 32 222        |
| Greece                | 220           | 230           | 270           | 300           | 302           | 378           | 404           | 486           | 517           |
| Hungary               | 287           | 293           | 333           | 348           | 336           | 321           | 324           | 295           | 315           |
| Ireland               | 204           | 205           | 208           | 203           | 184           | 188           | 168           | 173           | 159           |
| Italy                 | 8 198         | 8 212         | 8 259         | 8 299         | 8 300         | 8 277         | 8 166         | 8 124         | 7 844         |
| Latvia                | 350           | 391           | 396           | 405           | 374           | 352           | 345           | 292           | 250           |
| Lithuania             | 78            | 86            | 123           | 127           | 140           | 154           | 149           | 157           | 159           |
| Luxembourg            | 61            | 62            | 73            | 73            | 75            | 71            | 63            | 61            | 49            |
| Malta                 | 7             | 7             | 8             | 10            | 9             | 6             | 6             | 7             | 7             |
| Moldova Rep           | 13            | 15            | 14            | 23            | 28            | 29            | 28            | 32            | 24            |
| Netherlands           | 1 005         | 1 038         | 993           | 925           | 892           | 895           | 870           | 868           | 842           |
| North Macedonia       |               | 20            | 36            | 52            | 54            | 55            | 57            | 54            | 51            |
| Norway                | 26            | 21            | 13            | 21            | 17            | 15            | 6             | 0             | 0             |
| Poland                | 816           | 906           | 1 027         | 1 096         | 1 128         | 1 135         | 1 234         | 1 307         | 1 394         |
| Portugal              | 278           | 294           | 285           | 287           | 271           | 264           | 259           | 268           | 260           |
| Romania               | 51            | 61            | 65            | 67            | 70            | 54            | 53            | 73            | 90            |
| Serbia                | 22            | 23            | 34            | 75            | 102           | 127           | 173           | 228           | 231           |
| Slovakia              | 479           | 541           | 576           | 594           | 539           | 534           | 510           | 487           | 391           |
| Slovenia              | 129           | 132           | 142           | 130           | 119           | 94            | 113           | 103           | 100           |
| Spain                 | 907           | 982           | 906           | 941           | 923           | 904           | 881           | 979           | 990           |
| Sweden                | 14            | 11            | 11            | 11            | 10            | 17            | 10            | 12            | 12            |
| Switzerland           | 290           | 303           | 321           | 333           | 351           | 373           | 389           | 405           | 410           |
| UK                    | 6 896         | 7 251         | 7 811         | 7 883         | 7 705         | 7 622         | 7 523         | 7 637         | 7 500         |
| Ukraine               | 39            | 64            | 89            | 95            | 176           | 212           | 471           | 471           | 111           |
| <b>European Union</b> | <b>50 902</b> | <b>53 819</b> | <b>55 065</b> | <b>55 665</b> | <b>55 121</b> | <b>55 024</b> | <b>55 799</b> | <b>54 948</b> | <b>54 342</b> |
| <b>Middle East</b>    | <b>180</b>    | <b>159</b>    | <b>209</b>    | <b>237</b>    | <b>239</b>    | <b>212</b>    | <b>238</b>    | <b>224</b>    | <b>244</b>    |
| Iran IR               | 47            | 16            | 22            | 24            | 24            | 11            | 22            | 22            | 22            |
| Israel                | 62            | 68            | 114           | 117           | 117           | 107           | 117           | 103           | 111           |
| Jordan                | 6             | 6             | 4             | 4             | 3             | 4             | 4             | 4             | 4             |
| Lebanon               | 10            | 10            | 10            | 30            | 32            | 32            | 32            | 32            | 32            |
| Palestine             |               |               |               | 1             | 0             | 0             | 0             | 0             | 0             |
| Qatar                 | 21            | 25            | 26            | 27            | 28            | 25            | 28            | 28            | 28            |
| Syrian AR             | 33            | 33            | 33            | 33            | 33            | 33            | 33            | 33            | 33            |
| United Arab Em        |               |               |               |               |               | 1             | 0             | 0             | 13            |
| <b>N America</b>      | <b>14 667</b> | <b>14 795</b> | <b>14 556</b> | <b>14 805</b> | <b>14 273</b> | <b>13 662</b> | <b>13 250</b> | <b>12 329</b> | <b>11 244</b> |
| Canada                | 917           | 960           | 932           | 873           | 823           | 815           | 784           | 783           | 783           |
| Mexico                | 164           | 161           | 158           | 209           | 191           | 188           | 248           | 209           | 204           |
| USA                   | 13 586        | 13 674        | 13 466        | 13 723        | 13 259        | 12 659        | 12 218        | 11 337        | 10 257        |
| <b>Oceania</b>        | <b>1 904</b>  | <b>1 778</b>  | <b>1 582</b>  | <b>1 505</b>  | <b>1 564</b>  | <b>1 645</b>  | <b>1 671</b>  | <b>1 666</b>  | <b>1 684</b>  |
| Australia             | 1 635         | 1 491         | 1 271         | 1 193         | 1 254         | 1 332         | 1 353         | 1 354         | 1 373         |
| New Zealand           | 244           | 261           | 283           | 283           | 280           | 286           | 291           | 284           | 283           |
| Papua N Guin          | 25            | 26            | 28            | 29            | 30            | 27            | 27            | 28            | 28            |
| Samoa                 |               |               |               |               | 0             | 0             | 0             | 0             | 0             |
| <b>S America</b>      | <b>1 143</b>  | <b>1 298</b>  | <b>1 406</b>  | <b>1 682</b>  | <b>1 946</b>  | <b>2 338</b>  | <b>2 616</b>  | <b>3 340</b>  | <b>2 947</b>  |
| Argentina             | 109           | 89            | 63            | 70            | 151           | 261           | 310           | 384           | 423           |
| Bolivia               |               |               | 3             | 0             |               |               |               |               |               |
| Brazil                | 957           | 1 147         | 1 254         | 1 457         | 1 618         | 1 869         | 2 107         | 2 751         | 2 315         |
| Chile                 | 40            | 12            | 12            | 59            | 68            | 69            | 68            | 62            | 67            |
| Colombia              |               |               |               | 10            | 4             |               |               | 1             | 1             |
| Ecuador               |               |               | 13            | 28            | 46            | 41            | 44            | 42            | 42            |
| Paraguay              | 2             | 2             | 2             | 2             | 2             | 11            | 13            | 13            | 13            |
| Peru                  | 30            | 41            | 56            | 47            | 51            | 66            | 52            | 65            | 64            |
| Uruguay               | 5             | 6             | 6             | 6             | 8             | 23            | 23            | 23            | 23            |

# Geothermal energy

## Énergie géothermique

## Energía geotérmica

| CAP (MW)                 | 2014          | 2015          | 2016          | 2017          | 2018          | 2019          | 2020          | 2021          | 2022          | 2023          |
|--------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| <b>World</b>             | <b>11 249</b> | <b>11 847</b> | <b>12 173</b> | <b>12 754</b> | <b>13 157</b> | <b>13 824</b> | <b>14 157</b> | <b>14 432</b> | <b>14 653</b> | <b>15 026</b> |
| <b>Africa</b>            | <b>373</b>    | <b>626</b>    | <b>660</b>    | <b>680</b>    | <b>691</b>    | <b>691</b>    | <b>870</b>    | <b>870</b>    | <b>956</b>    | <b>991</b>    |
| Ethiopia                 | 7             | 7             | 7             | 7             | 7 e           | 7 o           | 7             | 7             | 7 o           | 7             |
| Kenya                    | 366 o         | 619 o         | 653 o         | 673 o         | 684 o         | 684 o         | 863 e         | 863 e         | 949 e         | 984 o         |
| <b>Asia</b>              | <b>3 854</b>  | <b>3 896</b>  | <b>4 001</b>  | <b>4 221</b>  | <b>4 375</b>  | <b>4 566</b>  | <b>4 572</b>  | <b>4 732</b>  | <b>4 761</b>  | <b>5 011</b>  |
| China                    | 26            | 26            | 26            | 26            | 26            | 26 e          |
| Chinese Taipei           |               |               |               |               | 0 o           | 0 o           | 0 o           | 5 o           | 5 o           | 7 o           |
| Indonesia                | 1 404 o       | 1 438 o       | 1 533 o       | 1 808 o       | 1 948 o       | 2 131 o       | 2 131 o       | 2 286 o       | 2 360 o       | 2 598 o       |
| Japan                    | 508           | 516           | 526           | 471           | 473           | 481           | 487           | 487           | 437 o         | 428 o         |
| Philippines              | 1 916 o       | 1 916 o       | 1 916 o       | 1 916 o       | 1 928 o       | 1 928 o       | 1 928 o       | 1 928 o       | 1 932 o       | 1 952 o       |
| Thailand                 | 0             | 0             | 0             | 0             | 0 e           | 0 o           | 0 o           | 0 e           | 0 e           | 0 e           |
| <b>C America + Carib</b> | <b>637</b>    | <b>640</b>    | <b>630</b>    | <b>665</b>    | <b>665</b>    | <b>721</b>    | <b>722</b>    | <b>719</b>    | <b>735</b>    | <b>760</b>    |
| Costa Rica               | 217 o         | 217 o         | 207           | 207           | 207 o         | 262 o         | 262 o         | 259 o         | 263 o         | 263           |
| El Salvador              | 204 o         | 229 o         |
| Guadeloupe               | 12            | 15            | 15 o          | 15 u          | 15 o          | 15 e          |
| Guatemala                | 49            | 49            | 49            | 49            | 49 o          | 52 o          | 49 o          | 49 o          | 49 o          | 49 o          |
| Honduras                 |               |               |               |               | 35 o          | 35 o          | 35 o          | 39 o          | 39 o          | 39 o          |
| Nicaragua                | 155           | 155           | 155           | 155           | 155 o         | 153 o         | 153 o         | 153 e         | 165 o         | 165 e         |
| <b>Eurasia</b>           | <b>483</b>    | <b>702</b>    | <b>899</b>    | <b>1 138</b>  | <b>1 357</b>  | <b>1 596</b>  | <b>1 687</b>  | <b>1 750</b>  | <b>1 765</b>  | <b>1 765</b>  |
| Russian Fed              | 78            | 78            | 78            | 74            | 74            | 81            | 74            | 74            | 74            | 74 e          |
| Türkiye                  | 405           | 624           | 821           | 1 064 o       | 1 283         | 1 515         | 1 613 o       | 1 676         | 1 691         | 1 691 o       |
| <b>Europe</b>            | <b>1 503</b>  | <b>1 503</b>  | <b>1 507</b>  | <b>1 558</b>  | <b>1 617</b>  | <b>1 622</b>  | <b>1 627</b>  | <b>1 633</b>  | <b>1 637</b>  | <b>1 637</b>  |
| Austria                  | 1             | 1             | 1             | 1             | 1             | 1 e           | 1 o           | 0             | 0             | 0 o           |
| Croatia                  |               |               |               |               | 10            | 10            | 10            | 10            | 10            | 10 o          |
| France                   | 15            | 15            | 16            | 16            | 16            | 16            | 16            | 16            | 16            | 16 e          |
| Germany                  | 29            | 29            | 33            | 32            | 35            | 40            | 40 e          | 46            | 50            | 50 o          |
| Hungary                  |               |               |               | 3             | 3             | 3             | 3             | 3             | 3             | 3 o           |
| Iceland                  | 665           | 665           | 665           | 710           | 756           | 756           | 756           | 756           | 756 e         | 756 e         |
| Italy                    | 768           | 768           | 767           | 767           | 767 e         | 767           | 772           | 772           | 772           | 772 o         |
| Portugal                 | 25            | 25            | 25            | 29            | 29            | 29            | 29            | 29            | 29 o          | 29 o          |
| Romania                  | 0 o           | 0 o           | 0 o           | 0             | 0             | 0             | 0             | 0             | 0             | 0 e           |
| <b>European Union</b>    | <b>849</b>    | <b>852</b>    | <b>857</b>    | <b>863</b>    | <b>876</b>    | <b>881</b>    | <b>886</b>    | <b>891</b>    | <b>895</b>    | <b>895</b>    |
| <b>N America</b>         | <b>3 382</b>  | <b>3 440</b>  | <b>3 440</b>  | <b>3 432</b>  | <b>3 393</b>  | <b>3 529</b>  | <b>3 545</b>  | <b>3 595</b>  | <b>3 647</b>  | <b>3 678</b>  |
| Canada                   |               |               |               |               |               |               |               |               |               | 6 e           |
| Mexico                   | 868 o         | 898 o         | 924 o         | 949 o         | 949 o         | 974 o         | 974 o         | 999 o         | 999 o         | 999 e         |
| USA                      | 2 514 o       | 2 542 o       | 2 517 o       | 2 483 o       | 2 444 o       | 2 555 o       | 2 572 o       | 2 597 o       | 2 649 o       | 2 674 o       |
| <b>Oceania</b>           | <b>1 016</b>  | <b>1 040</b>  | <b>1 035</b>  | <b>1 035</b>  | <b>1 059</b>  | <b>1 059</b>  | <b>1 093</b>  | <b>1 093</b>  | <b>1 100</b>  | <b>1 100</b>  |
| Australia                | 0             | 0             | 0             | 0 e           | 0             | 0             | 0             | 0             | 0 e           | 0 e           |
| New Zealand              | 966           | 990           | 985           | 985           | 1 009         | 1 009         | 1 043         | 1 043         | 1 050         | 1 050 e       |
| Papua N Guin             | 50 e          |
| <b>S America</b>         |               |               |               | <b>24</b>     |               | <b>40</b>     | <b>40</b>     | <b>40</b>     | <b>51</b>     | <b>83</b>     |
| Chile                    |               |               |               | 24 o          |               | 40 o          | 40 o          | 40 o          | 51 o          | 83 o          |

# Geothermal energy

## Énergie géothermique

## Energía geotérmica

| <b>PROD (GWh)</b>        | <b>2014</b>   | <b>2015</b>   | <b>2016</b>   | <b>2017</b>   | <b>2018</b>   | <b>2019</b>   | <b>2020</b>   | <b>2021</b>   | <b>2022</b>   |
|--------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| <b>World</b>             | <b>77 344</b> | <b>81 229</b> | <b>83 241</b> | <b>87 052</b> | <b>89 464</b> | <b>92 001</b> | <b>95 445</b> | <b>94 654</b> | <b>96 878</b> |
| <b>Africa</b>            | <b>3 206</b>  | <b>4 481</b>  | <b>4 689</b>  | <b>4 870</b>  | <b>5 168</b>  | <b>5 384</b>  | <b>5 385</b>  | <b>5 124</b>  | <b>5 354</b>  |
| Ethiopia                 |               |               |               |               |               |               |               |               |               |
| Kenya                    | 3 206 o       | 4 481 o       | 4 689 o       | 4 870 e       | 5 168 e       | 5 384 e       | 5 385         | 5 124 e       | 5 325 e       |
| <b>Asia</b>              | <b>23 111</b> | <b>23 832</b> | <b>24 372</b> | <b>25 636</b> | <b>27 123</b> | <b>27 783</b> | <b>29 456</b> | <b>29 068</b> | <b>30 227</b> |
| China                    | 144           | 144           | 144           | 144           | 144 e         |
| Indonesia                | 10 038 o      | 10 048 o      | 10 656 o      | 12 764 o      | 14 019 o      | 14 100 o      | 15 563 o      | 15 899 o      | 16 677 o      |
| Japan                    | 2 620         | 2 595         | 2 501         | 2 457         | 2 524         | 2 847         | 2 992         | 3 008         | 2 980         |
| Philippines              | 10 308 o      | 11 044        | 11 070 o      | 10 270 o      | 10 435 o      | 10 691 o      | 10 757 o      | 10 016 o      | 10 425 o      |
| Thailand                 | 1 o           | 1 o           | 1 o           | 2 o           | 1 o           | 1 o           | 1 o           | 1 o           | 1 o           |
| <b>C America + Carib</b> | <b>4 080</b>  | <b>3 927</b>  | <b>3 994</b>  | <b>3 896</b>  | <b>3 969</b>  | <b>4 432</b>  | <b>4 709</b>  | <b>4 592</b>  | <b>4 603</b>  |
| Costa Rica               | 1 538         | 1 376 o       | 1 340 o       | 1 118 o       | 969           | 1 513         | 1 689 o       | 1 602 o       | 1 619 o       |
| El Salvador              | 1 558         | 1 540         | 1 576         | 1 569 o       | 1 545         | 1 474         | 1 557 o       | 1 559 o       | 1 581         |
| Guadeloupe               | 75 o          | 83            | 84 o          | 112 o         | 107 o         | 109 o         | 115           | 84 o          | 96 o          |
| Guatemala                | 247 o         | 252 o         | 289 o         | 253 o         | 250           | 262           | 274 o         | 265 o         | 282 o         |
| Honduras                 |               |               |               | 93            | 297           | 296           | 307           | 348 o         | 337 o         |
| Nicaragua                | 662 o         | 678 o         | 706 o         | 751 o         | 801 o         | 778 o         | 767 o         | 734 o         | 687 o         |
| <b>Eurasia</b>           | <b>2 819</b>  | <b>3 882</b>  | <b>5 264</b>  | <b>6 562</b>  | <b>7 857</b>  | <b>9 384</b>  | <b>10 449</b> | <b>11 223</b> | <b>11 568</b> |
| Russian Fed              | 455           | 457 e         | 446 e         | 435 e         | 426 e         | 433 e         | 421 e         | 430 e         | 449 e         |
| Türkiye                  | 2 364         | 3 425         | 4 819         | 6 127         | 7 431         | 8 952         | 10 028        | 10 793        | 11 119 o      |
| <b>Europe</b>            | <b>11 542</b> | <b>11 617</b> | <b>11 800</b> | <b>11 885</b> | <b>12 665</b> | <b>12 744</b> | <b>12 678</b> | <b>12 340</b> | <b>12 344</b> |
| Austria                  | 0             | 0             | 0             | 0             | 0             | 0             | 0             | 0             | 0             |
| Croatia                  |               |               |               | 2             | 92            | 94            | 90            | 73            |               |
| France                   | 83            | 92            | 98            | 133           | 127           | 128           | 133           | 100           | 114           |
| Germany                  | 98            | 133           | 175           | 163           | 178           | 197           | 231           | 244           | 206           |
| Hungary                  |               |               |               | 1             | 12            | 18            | 16            | 12            | 4             |
| Iceland                  | 5 238         | 5 003         | 5 067         | 5 170         | 6 010         | 6 018         | 5 961         | 5 802         | 5 916 u       |
| Italy                    | 5 916         | 6 185         | 6 289         | 6 201         | 6 105         | 6 075         | 6 026         | 5 914         | 5 837         |
| Portugal                 | 205           | 204           | 172           | 217           | 230           | 215           | 217           | 179           | 195           |
| Romania                  | 0             | 0             | 0             |               |               |               |               |               |               |
| <b>European Union</b>    | <b>6 379</b>  | <b>6 696</b>  | <b>6 817</b>  | <b>6 827</b>  | <b>6 762</b>  | <b>6 835</b>  | <b>6 832</b>  | <b>6 622</b>  | <b>6 524</b>  |
| <b>N America</b>         | <b>24 710</b> | <b>25 058</b> | <b>24 732</b> | <b>25 735</b> | <b>24 148</b> | <b>23 715</b> | <b>24 151</b> | <b>23 440</b> | <b>23 678</b> |
| Mexico                   | 6 000         | 6 331         | 6 148         | 7 009 o       | 5 375 o       | 5 351 o       | 5 320 o       | 4 363 o       | 4 536 o       |
| USA                      | 18 710        | 18 727        | 18 584        | 18 726 o      | 18 773 o      | 18 364 o      | 18 831 o      | 19 077 o      | 19 142 o      |
| <b>Oceania</b>           | <b>7 876</b>  | <b>8 433</b>  | <b>8 389</b>  | <b>8 404</b>  | <b>8 319</b>  | <b>8 357</b>  | <b>8 400</b>  | <b>8 543</b>  | <b>8 640</b>  |
| Australia                | 1             | 1             |               | 1             |               |               |               |               |               |
| New Zealand              | 7 627         | 8 214         | 8 202         | 8 246         | 8 193         | 8 261         | 8 304         | 8 447         | 8 544         |
| Papua N Guin             | 248 e         | 218 e         | 187 e         | 157 e         | 126 e         | 96 u          | 96 e          | 96 e          | 96 o          |
| <b>S America</b>         |               |               |               | <b>64</b>     | <b>214</b>    | <b>202</b>    | <b>216</b>    | <b>324</b>    | <b>465</b>    |
| Chile                    |               |               |               | 64            | 214           | 202           | 216 o         | 324 o         | 465 o         |



Off-grid capacity

Capacité hors réseau

Capacidad aislada

# Total off-grid renewable energy

## Total énergies renouvelables hors réseau

## Total energías renovables aislada

| CAP (MW)        | 2014             | 2015             | 2016             | 2017             | 2018             | 2019             | 2020             | 2021              | 2022              | 2023              |
|-----------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|
| <b>World</b>    | <b>6 332.256</b> | <b>7 011.298</b> | <b>7 445.079</b> | <b>7 375.009</b> | <b>9 112.098</b> | <b>9 187.232</b> | <b>9 788.204</b> | <b>10 565.331</b> | <b>12 024.737</b> | <b>12 904.689</b> |
| <b>Africa</b>   | <b>317.060</b>   | <b>385.834</b>   | <b>465.694</b>   | <b>612.800</b>   | <b>742.625</b>   | <b>821.370</b>   | <b>937.876</b>   | <b>1 093.501</b>  | <b>1 223.948</b>  | <b>1 262.341</b>  |
| Algeria         | 11.300           | 29.100           | 29.100           | 29.100           | 28.900           | 28.900           | 28.900           | 28.900            | 48.200            | 48.200            |
| Angola          | 23.179           | 23.179           | 23.187           | 35.703           | 35.716           | 36.645           | 36.653           | 36.720            | 36.739            | 36.739            |
| Benin           | 0.050            | 0.236            | 0.795            | 1.036            | 1.185            | 2.406            | 3.447            | 4.616             | 6.982             | 6.982             |
| Botswana        | 0.560            | 0.853            | 1.926            | 2.061            | 2.366            | 2.365            | 2.364            | 2.397             | 2.385             | 2.385             |
| Burkina Faso    | 1.974            | 5.500            | 5.915            | 6.202            | 21.645           | 22.789           | 23.279           | 24.064            | 24.659            | 24.659            |
| Burundi         | 5.626            | 5.923            | 6.720            | 7.068            | 7.080            | 7.120            | 7.260            | 6.718             | 6.563             | 6.563             |
| Cabo Verde      | 0.074            | 0.268            | 0.268            | 0.426            | 0.998            | 1.139            | 1.305            | 1.427             | 1.623             | 1.796             |
| Cameroon        | 0.163            | 0.230            | 0.249            | 11.676           | 11.937           | 13.213           | 14.076           | 26.752            | 26.828            | 26.828            |
| Cent Afr Rep    | 0.295            | 0.299            | 0.409            | 0.474            | 0.499            | 0.496            | 0.539            | 0.537             | 0.534             | 0.534             |
| Chad            | 0.050            | 0.172            | 1.280            | 1.290            | 1.662            | 1.657            | 1.706            | 2.192             | 2.238             | 2.238             |
| Comoros         |                  | 0.805            | 1.146            | 1.146            | 1.165            | 1.152            | 0.362            | 0.034             | 0.034             | 0.034             |
| Congo DR        | 1.421            | 1.515            | 4.774            | 18.630           | 32.093           | 43.238           | 46.748           | 49.733            | 52.530            | 52.530            |
| Congo Rep       | 0.018            | 0.020            | 0.040            | 0.057            | 0.064            | 0.062            | 0.522            | 0.565             | 0.640             | 0.640             |
| Cote d'Ivoire   | 0.009            | 0.284            | 0.450            | 1.007            | 2.097            | 4.206            | 6.402            | 7.749             | 8.999             | 8.999             |
| Djibouti        | 0.300            | 0.300            | 0.362            | 0.362            | 0.362            | 0.362            | 0.362            | 20.362            | 20.362            | 20.362            |
| Egypt           | 20.000           | 21.000           | 35.000           | 35.000           | 49.200           | 35.200           | 37.000           | 35.500            | 71.000            | 71.000            |
| Eq Guinea       |                  | 0.160            | 0.354            | 0.354            | 0.336            | 0.325            | 0.189            | 0.006             | 0.006             | 0.006             |
| Eritrea         | 8.684            | 8.684            | 9.839            | 24.179           | 26.689           | 26.744           | 26.731           | 25.950            | 25.610            | 25.610            |
| Eswatini        | 1.800            | 1.800            | 1.801            | 1.804            | 1.804            | 1.816            | 1.851            | 1.851             | 1.838             | 1.838             |
| Ethiopia        | 10.410           | 11.169           | 15.325           | 13.779           | 13.631           | 13.631           | 21.469           | 22.469            | 22.469            | 22.469            |
| Gabon           | 0.626            | 1.838            | 1.846            | 1.861            | 1.866            | 1.878            | 1.870            | 2.270             | 2.290             | 2.290             |
| Gambia          | 0.278            | 0.338            | 0.799            | 1.110            | 1.149            | 1.152            | 1.142            | 1.129             | 1.045             | 1.045             |
| Ghana           | 12.970           | 17.322           | 18.891           | 20.311           | 20.777           | 21.594           | 22.214           | 22.711            | 23.140            | 23.140            |
| Guinea          | 2.291            | 2.293            | 2.447            | 2.646            | 15.120           | 16.234           | 16.850           | 17.181            | 18.279            | 18.279            |
| Guinea Bissau   | 0.121            | 0.185            | 0.702            | 0.947            | 1.828            | 1.824            | 1.763            | 2.053             | 1.805             | 1.805             |
| Kenya           | 24.096           | 38.240           | 43.679           | 55.909           | 64.247           | 79.748           | 98.462           | 121.056           | 133.244           | 133.244           |
| Lesotho         | 0.338            | 0.338            | 0.339            | 0.339            | 0.274            | 0.499            | 0.505            | 0.470             | 0.640             | 0.640             |
| Liberia         | 5.039            | 5.063            | 5.352            | 5.796            | 6.178            | 6.618            | 7.505            | 7.831             | 8.454             | 8.454             |
| Libya           | 4.900            | 4.900            | 4.900            | 5.110            | 5.110            | 5.110            | 5.111            | 6.333             | 6.333             | 6.333             |
| Madagascar      | 5.073            | 6.070            | 6.935            | 7.588            | 7.866            | 9.164            | 10.251           | 10.120            | 10.871            | 11.431            |
| Malawi          | 1.728            | 2.131            | 3.744            | 4.355            | 4.787            | 5.209            | 7.172            | 7.908             | 8.934             | 8.934             |
| Mali            | 9.675            | 10.703           | 11.234           | 48.074           | 48.568           | 49.603           | 49.870           | 80.871            | 81.386            | 81.386            |
| Mauritania      | 7.551            | 7.566            | 24.166           | 24.166           | 25.466           | 25.609           | 25.609           | 25.609            | 59.609            | 59.609            |
| Mauritius       | 0.807            | 0.834            | 1.615            | 3.987            | 4.140            | 5.515            | 4.848            | 4.080             | 2.064             | 2.064             |
| Morocco         | 23.800           | 23.800           | 25.870           | 27.895           | 27.895           | 27.903           | 28.000           | 28.000            | 28.000            | 28.000            |
| Mozambique      | 1.863            | 2.655            | 2.655            | 2.678            | 2.678            | 2.728            | 3.721            | 3.721             | 3.721             | 3.721             |
| Namibia         | 1.359            | 1.359            | 1.368            | 1.409            | 13.602           | 13.893           | 14.382           | 14.400            | 14.414            | 14.414            |
| Niger           | 6.457            | 6.472            | 6.631            | 6.847            | 6.973            | 7.100            | 7.691            | 7.555             | 7.954             | 7.954             |
| Nigeria         | 11.471           | 18.507           | 22.899           | 28.285           | 32.715           | 44.777           | 60.589           | 76.466            | 101.825           | 101.825           |
| Reunion         | 0.001            | 0.001            | 0.001            | 0.001            | 1.341            | 1.501            | 1.501            | 1.501             | 1.501             | 1.501             |
| Rwanda          | 2.875            | 3.501            | 4.722            | 6.152            | 7.845            | 11.364           | 12.976           | 14.335            | 15.649            | 15.649            |
| Sao Tome Prn    |                  | 0.154            | 0.348            | 0.348            | 0.349            | 0.349            | 0.339            | 0.203             | 0.013             | 0.013             |
| Senegal         | 0.247            | 0.501            | 0.861            | 1.664            | 3.606            | 4.750            | 5.365            | 6.352             | 6.844             | 6.844             |
| Seychelles      | 0.068            | 0.068            | 0.873            | 1.214            | 2.068            | 2.053            | 2.040            | 4.173             | 3.845             | 3.845             |
| Sierra Leone    | 0.319            | 0.448            | 0.848            | 6.291            | 6.271            | 9.306            | 11.416           | 19.536            | 19.865            | 19.865            |
| Somalia         | 2.331            | 2.963            | 3.905            | 5.132            | 5.818            | 5.989            | 14.459           | 22.459            | 45.959            | 49.459            |
| South Africa    | 9.389            | 9.864            | 10.139           | 12.921           | 12.782           | 13.210           | 12.975           | 12.871            | 12.800            | 12.800            |
| South Sudan     | 0.098            | 0.107            | 0.163            | 0.250            | 0.737            | 0.803            | 0.805            | 1.967             | 1.967             | 1.967             |
| Sudan           | 16.584           | 19.911           | 26.219           | 35.800           | 59.478           | 80.199           | 116.840          | 135.570           | 135.570           | 135.570           |
| Tanzania        | 47.924           | 53.971           | 56.358           | 60.831           | 65.101           | 64.056           | 66.988           | 69.874            | 70.957            | 70.957            |
| Togo            | 0.022            | 0.062            | 0.082            | 0.572            | 4.392            | 7.278            | 10.062           | 13.480            | 15.420            | 15.420            |
| Tunisia         | 1.563            | 1.710            | 2.060            | 2.076            | 2.076            | 7.076            | 7.076            | 7.076             | 7.076             | 7.076             |
| Uganda          | 23.906           | 25.906           | 27.906           | 30.506           | 30.506           | 30.666           | 30.826           | 30.985            | 31.145            | 31.305            |
| Zambia          | 2.137            | 2.597            | 3.506            | 4.249            | 6.341            | 9.035            | 9.930            | 10.440            | 11.651            | 11.651            |
| Zimbabwe        | 3.240            | 3.078            | 3.420            | 4.126            | 4.588            | 4.247            | 4.632            | 3.882             | 3.439             | 3.439             |
| <b>Asia</b>     | <b>5 242.254</b> | <b>5 707.917</b> | <b>6 016.730</b> | <b>5 743.884</b> | <b>7 167.605</b> | <b>7 123.524</b> | <b>7 583.095</b> | <b>8 143.307</b>  | <b>9 417.086</b>  | <b>10 202.713</b> |
| Afghanistan     | 46.109           | 50.126           | 54.844           | 58.734           | 58.509           | 58.024           | 57.446           | 57.734            | 59.781            | 59.781            |
| Bangladesh      | 173.787          | 198.156          | 158.086          | 201.717          | 197.868          | 208.042          | 213.676          | 209.845           | 173.748           | 161.277           |
| Bhutan          | 8.353            | 8.353            | 8.353            | 8.353            | 8.590            | 8.590            | 8.610            | 8.610             | 8.738             | 8.738             |
| Brunei Darussel | 0.014            | 0.014            | 0.014            | 0.015            | 0.015            | 0.016            | 0.027            | 0.047             | 0.047             | 0.047             |
| Cambodia        | 26.192           | 28.195           | 28.873           | 28.977           | 28.446           | 28.248           | 27.720           | 28.478            | 28.467            | 28.487            |
| China           | 586.930          | 655.530          | 710.490          | 747.190          | 786.950          | 826.710          | 866.470          | 906.230           | 945.990           | 985.750           |
| India           | 1 204.517        | 1 359.070        | 1 569.267        | 1 810.598        | 2 111.273        | 2 128.467        | 2 259.518        | 2 681.925         | 3 019.478         | 3 301.886         |
| Indonesia       | 1 671.941        | 1 682.685        | 1 690.221        | 1 727.364        | 2 670.690        | 2 682.150        | 2 717.060        | 3 116.860         | 3 979.640         | 4 434.740         |
| Korea DPR       | 11.708           | 23.654           | 32.504           | 36.110           | 49.660           | 63.210           | 77.030           | 90.580            | 104.130           | 117.680           |
| Lao PDR         | 3.066            | 3.418            | 3.573            | 3.573            | 3.863            | 3.863            | 3.875            | 3.909             | 3.909             | 3.909             |
| Malaysia        | 1 102.113        | 1 240.848        | 1 246.170        | 534.960          | 540.004          | 540.015          | 540.199          | 540.230           | 540.279           | 540.279           |
| Maldives        | 5.289            | 6.206            | 8.895            | 12.198           | 17.885           | 22.012           | 28.112           | 32.212            | 37.212            | 38.462            |
| Mongolia        | 8.583            | 8.583            | 8.583            | 8.583            | 8.583            | 8.583            | 8.577            | 8.571             | 8.566             | 8.566             |
| Myanmar         | 62.041           | 76.114           | 88.649           | 102.819          | 111.270          | 114.260          | 110.274          | 106.225           | 153.878           | 153.878           |
| Nepal           | 33.797           | 39.314           | 41.487           | 83.299           | 85.545           | 85.694           | 88.641           | 90.470            | 93.204            | 93.204            |
| Pakistan        | 18.394           | 19.794           | 22.612           | 34.474           | 35.621           | 39.785           | 41.089           | 41.184            | 40.851            | 40.851            |
| Philippines     | 32.016           | 35.260           | 44.283           | 44.602           | 55.563           | 89.811           | 90.483           | 91.294            | 90.353            | 96.189            |
| Sri Lanka       | 12.170           | 12.171           | 12.206           | 12.189           | 12.105           | 12.105           | 12.105           | 12.105            | 12.105            | 12.105            |
| Tajikistan      | 43.200           | 43.200           | 43.200           | 43.200           | 44.160           | 44.160           | 44.160           | 45.260            | 45.260            | 45.260            |
| Timor Leste     | 1.544            | 1.736            | 1.730            | 1.414            | 1.190            | 0.964            | 0.728            | 0.723             | 0.763             | 0.809             |
| Uzbekistan      | 1.000            | 1.000            | 2.200            | 3.025            | 3.325            | 3.325            | 3.325            | 3.325             | 3.325             | 3.325             |
| Viet Nam        | 189.490          | 214.490          | 240.490          | 240.490          | 336.490          | 155.490          | 83.990           | 67.490            | 67.490            | 67.490            |

# Total off-grid renewable energy

## Total énergies renouvelables hors réseau

## Total energías renovables aislada

| CAP (MW)                 | 2014           | 2015           | 2016           | 2017           | 2018           | 2019           | 2020           | 2021           | 2022           | 2023           |
|--------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| <b>C America + Carib</b> | <b>106.673</b> | <b>115.815</b> | <b>113.472</b> | <b>146.322</b> | <b>148.880</b> | <b>166.509</b> | <b>175.580</b> | <b>182.464</b> | <b>191.383</b> | <b>200.935</b> |
| Antigua Barb             |                |                | 0.010          | 0.414          | 0.414          | 0.414          | 0.414          | 0.414          | 0.414          | 0.414          |
| Bahamas                  | 0.801          | 1.167          | 1.220          | 1.166          | 1.135          | 1.078          | 1.078          | 5.078          | 5.078          | 5.078          |
| Belize                   | 0.185          | 0.189          | 0.189          | 0.196          | 0.196          | 0.790          | 0.790          | 0.790          | 0.790          | 0.790          |
| BES Islands              |                |                |                |                |                |                |                |                |                | 0.130          |
| Br Virgin Is             | 0.551          | 1.263          | 1.425          | 1.426          | 1.435          | 1.791          | 1.996          | 1.985          | 2.000          | 3.000          |
| Costa Rica               | 1.077          | 1.344          | 1.432          | 1.541          | 1.568          | 1.581          | 1.640          | 1.770          | 1.770          | 1.770          |
| Cuba                     |                |                |                | 0.467          | 0.835          | 9.350          | 9.574          | 10.297         | 10.297         | 10.297         |
| Curacao                  | 0.004          | 0.004          | 0.004          | 0.004          | 0.004          | 0.004          | 0.004          | 0.004          | 0.004          | 0.004          |
| Dominica                 | 0.001          | 0.001          | 0.001          | 0.001          | 0.001          | 0.001          | 0.001          | 0.001          | 0.001          | 0.001          |
| Dominican Rep            | 21.700         | 22.466         | 22.877         | 54.048         | 56.178         | 56.515         | 57.235         | 59.235         | 67.019         | 74.337         |
| El Salvador              | 0.184          | 0.205          | 0.205          | 0.229          | 0.229          | 4.217          | 5.163          | 5.205          | 5.205          | 5.205          |
| Guatemala                | 5.434          | 8.308          | 8.308          | 8.308          | 8.308          | 8.308          | 8.308          | 8.308          | 8.308          | 8.308          |
| Haiti                    | 0.927          | 1.154          | 1.425          | 1.505          | 1.548          | 1.601          | 1.522          | 1.522          | 1.522          | 1.522          |
| Honduras                 | 15.300         | 19.200         | 14.174         | 14.753         | 14.765         | 16.175         | 23.199         | 23.199         | 23.224         | 23.224         |
| Jamaica                  | 0.008          | 0.013          | 0.013          | 0.013          | 0.013          | 0.013          | 0.013          | 0.013          | 0.013          | 0.013          |
| Nicaragua                | 0.400          | 0.400          | 1.912          | 1.912          | 1.912          | 4.312          | 4.312          | 5.407          | 6.511          |                |
| Panama                   | 60.000         | 60.000         | 60.000         | 60.000         | 60.000         | 60.020         | 60.020         | 60.020         | 60.020         | 60.020         |
| Puerto Rico              |                |                |                | 0.062          | 0.062          | 0.062          | 0.034          | 0.034          | 0.034          | 0.034          |
| St Kitts Nevis           | 0.001          | 0.001          | 0.001          | 0.001          | 0.001          | 0.001          | 0.001          | 0.001          | 0.001          | 0.001          |
| St Lucia                 |                |                |                | 0.176          | 0.176          | 0.176          | 0.176          | 0.176          | 0.176          | 0.176          |
| US Virgin Is             | 0.100          | 0.100          | 0.100          | 0.100          | 0.100          | 0.100          | 0.100          | 0.100          | 0.100          | 0.100          |
| <b>Middle East</b>       | <b>53.489</b>  | <b>108.609</b> | <b>129.131</b> | <b>151.666</b> | <b>306.480</b> | <b>310.444</b> | <b>316.595</b> | <b>317.600</b> | <b>328.419</b> | <b>354.984</b> |
| Iran IR                  | 0.378          | 0.378          | 0.378          | 0.378          | 0.378          | 0.378          | 0.378          | 0.378          | 0.378          | 0.378          |
| Iraq                     | 37.840         | 37.840         | 37.840         | 37.840         | 37.840         | 37.840         | 37.840         | 40.340         | 40.340         |                |
| Jordan                   | 0.236          | 0.557          | 0.588          | 0.588          | 0.623          | 0.670          | 2.385          | 3.335          | 3.335          |                |
| Kuwait                   | 2.400          | 2.400          | 2.400          | 2.400          | 2.400          | 2.400          | 2.400          | 2.400          | 2.400          |                |
| Lebanon                  | 3.390          | 3.397          | 3.507          | 3.527          | 7.880          | 7.880          | 7.890          | 7.890          | 7.890          |                |
| Oman                     |                |                | 0.011          | 0.011          | 0.011          | 0.011          | 0.011          | 0.011          | 0.011          | 0.011          |
| Palestine                |                |                |                |                |                | 1.833          | 1.833          | 1.833          | 1.833          | 1.833          |
| Syrian AR                | 0.600          | 0.600          | 0.600          | 0.600          | 0.600          | 0.600          | 0.600          | 0.600          | 0.600          | 0.600          |
| United Arab Em           | 3.192          | 3.208          | 3.208          | 3.238          | 3.407          | 4.672          | 5.597          | 5.597          | 5.897          | 6.197          |
| Yemen                    | 5.453          | 60.229         | 80.599         | 103.084        | 253.341        | 254.160        | 257.671        | 257.716        | 263.735        | 290.000        |
| <b>Oceania</b>           | <b>154.439</b> | <b>158.307</b> | <b>162.712</b> | <b>164.837</b> | <b>167.293</b> | <b>170.442</b> | <b>171.068</b> | <b>171.950</b> | <b>174.167</b> | <b>175.399</b> |
| Amer Samoa               |                |                | 1.504          | 1.854          | 1.854          | 1.504          | 1.504          | 1.504          | 1.504          | 1.504          |
| Cook Is                  | 0.047          | 0.047          | 0.047          | 0.047          | 1.869          | 2.606          | 2.606          | 2.606          | 2.606          | 2.606          |
| Fiji                     | 1.402          | 2.648          | 4.651          | 4.718          | 5.131          | 5.222          | 5.324          | 5.613          | 5.904          | 7.035          |
| Fr Polynesia             | 2.948          | 3.148          | 3.248          | 3.548          | 3.448          | 3.548          | 3.548          | 3.548          | 3.548          |                |
| Kiribati                 | 0.743          | 1.389          | 1.397          | 1.397          | 1.397          | 1.397          | 1.397          | 1.397          | 1.397          | 1.397          |
| Marshall Is              | 0.660          | 0.660          | 0.660          | 0.720          | 0.737          | 0.737          | 0.737          | 0.737          | 0.737          | 0.737          |
| Micronesia               | 0.388          | 0.388          | 0.388          | 0.388          | 0.395          | 0.395          | 0.395          | 0.395          | 0.395          | 0.395          |
| Nauru                    | 0.008          | 0.008          | 0.008          | 0.009          | 0.009          | 0.167          | 0.158          | 0.158          | 0.158          | 0.158          |
| New Caledon              | 0.500          | 0.500          | 0.500          | 0.575          | 0.607          | 0.656          | 0.711          | 0.786          | 0.869          | 0.960          |
| Palau                    |                |                | 0.170          | 0.170          | 0.170          | 0.235          | 0.538          | 0.538          | 0.538          | 0.538          |
| Papua N Guin             | 145.296        | 145.835        | 146.186        | 146.152        | 145.915        | 147.653        | 147.767        | 148.303        | 148.394        | 148.394        |
| Samoa                    | 0.014          | 0.014          | 0.014          | 0.039          | 0.039          | 0.197          | 0.197          | 0.197          | 0.197          | 0.197          |
| Solomon Is               | 1.765          | 1.765          | 1.946          | 2.321          | 2.321          | 2.208          | 2.208          | 2.208          | 3.918          | 3.918          |
| Tokelau                  | 0.021          | 0.021          | 0.021          | 0.021          | 0.021          | 0.021          | 0.021          | 0.021          | 0.021          | 0.021          |
| Tonga                    | 0.234          | 0.240          | 0.277          | 0.277          | 0.437          | 0.437          | 0.437          | 0.437          | 0.437          | 0.437          |
| Tuvalu                   | 0.192          | 1.308          | 1.316          | 1.321          | 1.332          | 1.332          | 1.332          | 1.332          | 1.332          | 1.332          |
| Vanuatu                  | 0.221          | 0.336          | 0.379          | 1.280          | 1.611          | 2.127          | 2.188          | 2.170          | 2.212          | 2.222          |
| <b>S America</b>         | <b>458.341</b> | <b>534.816</b> | <b>557.340</b> | <b>555.500</b> | <b>579.215</b> | <b>594.943</b> | <b>603.990</b> | <b>656.509</b> | <b>689.734</b> | <b>708.317</b> |
| Argentina                | 104.835        | 102.725        | 102.753        | 102.768        | 102.768        | 102.778        | 102.316        | 106.338        | 107.690        | 106.950        |
| Bolivia                  | 29.675         | 91.660         | 91.660         | 81.660         | 123.160        | 128.550        | 128.780        | 127.710        | 127.710        |                |
| Brazil                   | 0.741          | 3.950          | 4.111          | 7.232          | 7.247          | 7.261          | 7.261          | 7.261          | 7.261          |                |
| Chile                    | 0.834          | 0.844          | 0.870          | 0.998          | 1.061          | 1.098          | 1.865          | 1.998          | 2.773          |                |
| Colombia                 | 1.477          | 1.840          | 1.897          | 6.937          | 8.994          | 14.100         | 21.290         | 32.116         | 47.087         | 61.022         |
| Ecuador                  | 10.250         | 12.250         | 12.320         | 12.320         | 13.879         | 13.879         | 13.879         | 13.902         | 14.902         | 17.098         |
| Falklands Malv           | 0.340          | 0.410          | 0.410          | 0.410          | 0.410          | 0.410          | 0.410          | 0.410          | 0.410          | 0.410          |
| Fr Guiana                | 1.211          | 1.211          | 1.211          | 1.211          | 1.211          | 4.311          | 4.311          | 4.311          | 4.311          |                |
| Guyana                   | 46.716         | 47.244         | 37.880         | 37.893         | 23.512         | 23.656         | 23.656         | 23.656         | 23.656         | 26.815         |
| Paraguay                 | 0.057          | 0.057          | 0.057          | 0.057          | 0.057          | 0.057          | 0.170          | 0.170          | 1.186          | 1.186          |
| Peru                     | 205.543        | 214.442        | 244.947        | 238.135        | 224.136        | 222.219        | 222.419        | 213.866        | 221.109        | 221.109        |
| South Georgia            | 0.186          | 0.186          | 0.186          | 0.186          | 0.186          | 0.186          | 0.186          | 0.186          | 0.186          | 0.199          |
| Suriname                 | 1.256          | 2.756          | 3.221          | 4.228          | 4.360          | 4.360          | 5.016          | 5.016          | 5.016          | 5.016          |
| Uruguay                  | 1.340          | 1.361          | 1.937          | 7.585          | 14.354         | 18.198         | 18.551         | 19.689         | 26.557         | 26.577         |
| Venezuela                | 53.880         | 53.880         | 53.880         | 53.880         | 53.880         | 53.880         | 53.880         | 99.880         | 99.880         | 99.880         |

\* Note: these figures exclude Eurasia, Europe and North America

\* Note : ces chiffres excluent l'Eurasie, l'Europe et l'Amérique du Nord

\* Nota: estas cifras excluyen Eurasia, Europa y Norteamérica

# Off-grid hydropower

## Hydroélectricité hors réseau

## Hidroeléctrica aislada

| CAP (MW)                 | 2014           | 2015           | 2016           | 2017           | 2018             | 2019             | 2020             | 2021             | 2022             | 2023             |
|--------------------------|----------------|----------------|----------------|----------------|------------------|------------------|------------------|------------------|------------------|------------------|
| <b>World</b>             | <b>594.900</b> | <b>628.681</b> | <b>642.861</b> | <b>663.554</b> | <b>1 615.315</b> | <b>1 639.847</b> | <b>1 644.936</b> | <b>1 663.215</b> | <b>1 662.627</b> | <b>1 670.338</b> |
| <b>Africa</b>            | <b>79.185</b>  | <b>90.900</b>  | <b>97.690</b>  | <b>132.898</b> | <b>143.104</b>   | <b>155.491</b>   | <b>157.052</b>   | <b>157.965</b>   | <b>158.323</b>   | <b>158.883</b>   |
| Angola                   | 22.859 u       | 22.859 u       | 22.859 u       | 35.279 u       | 35.279 e         |
| Burkina Faso             |                | 2.600 e        | 2.600 e        | 2.600 e        | 2.600 e          | 2.600 e          | 2.600 e          | 2.600 e          | 2.600 e          | 2.600 e          |
| Burundi                  | 1.603 e          | 1.603 e          | 1.603 e          | 1.603 e          | 1.603 e          | 1.603 e          |
| Cameroon                 | 0.096 e          | 0.096 e          | 0.096 e          | 0.096 e          | 0.096 e          | 0.096 e          |
| Cent Afr Rep             | 0.200 e          | 0.200 e          | 0.200 e          | 0.200 e          | 0.200 e          | 0.200 e          |
| Congo DR                 |                |                |                | 10.800 e       | 20.800 e         | 30.700 e         |
| Eswatini                 | 1.800 e          | 1.800 e          | 1.800 e          | 1.800 e          | 1.800 e          | 1.800 e          |
| Ethiopia                 | 1.279 e        | 1.279 e        | 1.279          | 1.279          | 1.279 e          | 1.279 e          | 1.279            | 1.279 e          | 1.279 e          | 1.279 e          |
| Gabon                    | 0.580 e          | 0.580 e          | 0.580 e          | 0.580 e          | 0.580 e          | 0.580 e          |
| Ghana                    |                |                |                |                |                  | 0.045 e          |
| Guinea                   | 2.220 o        | 2.220 o        | 2.220 e        | 2.220 e        | 2.220 e          | 2.220 e          | 2.220 e          | 2.220 e          | 2.220 e          | 2.220 e          |
| Kenya                    | 10.135 e       | 10.135 e       | 13.655 e       | 19.775 e       | 19.793 e         | 19.819 e         | 19.819 e         | 19.819 e         | 19.857 e         | 19.857 e         |
| Lesotho                  | 0.180          | 0.180          | 0.180          | 0.180          | 0.180            | 0.180            | 0.180            | 0.180            | 0.180            | 0.180 e          |
| Liberia                  | 4.860 e          | 4.860 e          | 4.860 e          | 4.860 e          | 4.860 e          | 4.860 e          |
| Madagascar               | 4.380 e        | 5.222 e        | 5.281 e        | 5.396 e        | 5.456 e          | 5.756 e          | 5.556 e          | 5.556 e          | 6.116 e          |                  |
| Malawi                   | 1.420 e        | 1.420 e        | 1.720 e        | 1.720 e        | 1.848 e          | 2.056 e          | 2.056 e          | 2.469 e          | 2.469 e          | 2.469 e          |
| Mali                     | 0.003 e          | 0.003 e          | 0.003 e          | 0.003 e          | 0.003 e          | 0.003 e          |
| Mauritius                | 0.700 e          | 0.700 e          | 0.700 e          | 0.700 e          | 0.700 e          | 0.700 e          |
| Mozambique               | 0.563 e        | 1.355 e        | 1.355 e        | 1.378 e        | 1.378 e          | 1.378 e          | 1.378 e          | 1.378 e          | 1.378 e          | 1.378 e          |
| Nigeria                  |                | 0.400 o        | 0.400 o        | 0.400 o        | 0.400 o          | 0.400 e          |
| Rwanda                   | 1.640 e        | 1.640 e        | 1.651 e        | 1.651 e        | 1.651 e          | 1.664 e          | 1.680 e          | 1.680 e          | 1.680 e          | 1.680 e          |
| Sierra Leone             | 0.250 e        | 0.250 e        | 0.250 e        | 4.890 e        | 4.890 e          | 4.890 e          | 4.890 e          | 4.890 e          | 4.890 e          | 4.890 e          |
| South Africa             | 7.500 e        | 7.650 e        | 7.650 e        | 7.650 e        | 7.650 e          | 7.650 e          | 7.650 e          | 7.650 e          | 7.650 e          | 7.650 e          |
| Tanzania                 | 10.505 e       | 17.445 e       | 20.345 e       | 21.435 e       | 21.435 e         | 22.335 e         | 24.035 e         | 24.535 e         | 24.855 e         | 24.855 e         |
| Uganda                   | 3.906 e          | 3.906 e          | 3.906 e          | 3.906 e          | 3.906 e          | 3.906 e          |
| Zambia                   | 1.936 e        | 1.912 e        | 1.912 e        | 1.912 e        | 1.912 e          | 2.552 e          |
| Zimbabwe                 | 0.570 e        | 0.585 e        | 0.585 e        | 0.585 e        | 0.585 e          | 0.565 e          |
| <b>Asia</b>              | <b>282.382</b> | <b>300.195</b> | <b>309.410</b> | <b>314.173</b> | <b>1 253.643</b> | <b>1 267.632</b> | <b>1 269.318</b> | <b>1 291.967</b> | <b>1 290.073</b> | <b>1 296.843</b> |
| Afghanistan              | 27.646 e       | 31.095 e       | 34.544 e       | 37.993 e       | 37.993 e         | 37.993 e         | 37.993 e         | 38.108 u         | 38.138 u         | 38.138 e         |
| Bhutan                   | 8.078 o        | 8.078 o        | 8.078 o        | 8.078 o        | 8.315 o          | 8.315 o          | 8.315 o          | 8.335 o          | 8.335 e          | 8.335 e          |
| India                    | 83.377 e       | 84.079 e       | 84.675 e       | 84.675 e       | 84.675 o         | 84.675 o         | 84.675 e         | 84.675 e         | 84.675 e         | 84.675 e         |
| Indonesia                | 13.314 e       | 15.007 e       | 15.437 e       | 15.437 e       | 944.380 o        | 944.880 o        | 944.880 o        | 964.300 o        | 963.410 o        | 968.000 o        |
| Lao PDR                  | 2.005 u        | 2.005 u        | 2.005 u        | 2.005 u        | 2.005 e          |
| Malaysia                 | 0.585 e        | 0.633 e        | 0.708 e        | 0.741 e        | 0.735 e          | 0.765 e          |
| Mongolia                 | 2.992 e        | 2.992 e        | 2.992 e        | 2.992 e        | 2.992 o          | 2.992 e          | 2.992 e          | 2.992            | 2.992            | 2.992 e          |
| Myanmar                  | 3.395 e        | 7.420 e        | 7.420 e        | 7.420 e        | 7.420 e          | 7.420 e          | 7.420 e          | 7.420 e          | 7.420 e          | 7.420 e          |
| Nepal                    | 22.858 e       | 26.504 e       | 28.414 e       | 29.659 e       | 30.915 e         | 32.368 e         | 34.054 e         | 36.048 e         | 37.184 e         | 37.184 e         |
| Pakistan                 | 17.539 e       | 18.789 e       | 21.544 e       | 21.580 e       | 21.660 e         | 23.666 e         |
| Philippines              | 9.595 o        | 12.595 o       | 12.595 o       | 12.595 o       | 20.595 o         | 30.595 o         | 30.595 o         | 30.595 e         | 28.425 o         | 30.605 o         |
| Sri Lanka                | 4.446 e          | 4.446 e          | 4.446 e          | 4.446 e          | 4.446 e          | 4.446 e          |
| Tajikistan               | 43.200         | 43.200         | 43.200         | 43.200         | 44.160 e         | 44.160 e         | 4.000            | 45.260 u         | 45.260           | 45.260 e         |
| Timor Leste              | 0.352 o        | 0.352 e        | 0.352 e        | 0.352 e        | 0.352 e          | 0.352 e          | 0.352 e          | 0.352 e          | 0.352 e          | 0.352 e          |
| Viet Nam                 | 43.000 e         | 43.000 e         | 43.000 e         | 43.000 e         | 43.000 e         | 43.000 e         |
| <b>C America + Carib</b> | <b>8.240</b>   | <b>8.516</b>   | <b>8.237</b>   | <b>8.368</b>   | <b>8.448</b>     | <b>10.485</b>    | <b>11.447</b>    | <b>11.447</b>    | <b>11.622</b>    | <b>11.622</b>    |
| Belize                   | 0.150 u          | 0.150 u          | 0.150 u          | 0.150 u          | 0.150 u          | 0.150 e          |
| Cuba                     |                |                |                |                | 1.900 o          | 1.900 u          | 1.900 e          | 1.900 e          | 1.900 e          | 1.900 e          |
| Dominican Rep            | 0.920 o        | 1.196 o        | 1.317 o        | 1.448 o        | 1.528            | 1.665 o          | 1.685 o          | 1.685 e          | 1.860 e          | 1.860 e          |
| El Salvador              | 0.140 e          | 0.140 o          | 1.082 o          | 1.082 o          | 1.082 o          | 1.082 e          |
| Honduras                 | 6.630 o          | 6.630 o          | 6.630 o          | 6.630 o          | 6.630 o          | 6.630 o          |
| Nicaragua                | 0.400          | 0.400          |                |                |                  |                  |                  |                  |                  |                  |
| <b>Middle East</b>       | <b>1.340</b>   | <b>1.340</b>   | <b>1.340</b>   | <b>1.340</b>   | <b>1.340</b>     | <b>1.340</b>     | <b>1.340</b>     | <b>1.340</b>     | <b>1.340</b>     | <b>1.340</b>     |
| Iraq                     | 1.340 e          | 1.340 e          | 1.340 e          | 1.340 e          | 1.340 e          | 1.340 e          |
| <b>Oceania</b>           | <b>77.039</b>  | <b>77.039</b>  | <b>77.192</b>  | <b>77.192</b>  | <b>77.192</b>    | <b>77.192</b>    | <b>77.192</b>    | <b>77.192</b>    | <b>77.192</b>    | <b>77.192</b>    |
| Fiji                     | 0.130 u        | 0.130 u        | 0.130 u        | 0.130 u        | 0.130 e          |
| Papua N Guin             | 76.645 e         | 76.645 e         | 76.645 e         | 76.645 e         | 76.645 e         | 76.645 e         |
| Solomon Is               | 0.189 o        | 0.189 o        | 0.339 o        | 0.339 o        | 0.339 o          | 0.339 e          |
| Vanuatu                  | 0.075 e        | 0.075 e        | 0.078 e        | 0.078 e        | 0.078 e          | 0.078 e          | 0.078 e          | 0.078 e          | 0.078 e          | 0.078 e          |
| <b>S America</b>         | <b>146.714</b> | <b>150.691</b> | <b>148.992</b> | <b>129.583</b> | <b>131.588</b>   | <b>127.707</b>   | <b>128.587</b>   | <b>123.304</b>   | <b>124.077</b>   | <b>124.458</b>   |
| Argentina                | 6.179          | 4.069          | 4.098          | 4.098          | 4.098            | 4.098            | 4.098            | 4.098            | 4.098            | 4.098            |
| Bolivia                  |                | 1.200          | 1.200          | 0.800          | 0.800 e          | 0.800 o          | 0.800 e          | 0.800 e          | 0.800 e          | 0.800            |
| Brazil                   | 0.020          | 0.020          | 0.020          | 0.020          | 0.020            | 0.020            | 0.020            | 0.020            | 0.020            | 0.020            |
| Chile                    | 0.765 o          | 0.765 o          | 1.445 o          | 1.445 o          | 2.225 o          | 2.225 o          |
| Colombia                 |                | 0.318 e        | 0.318 e        | 5.318 o        | 5.318 o          | 9.405 e          | 9.405 e          | 4.275 o          | 4.275 o          | 4.643 o          |
| Ecuador                  | 3.660 o        | 5.660 o        | 5.660 o        | 5.660 e        | 6.060 o          | 6.060 o          | 6.060 o          | 6.060 o          | 6.060            | 6.060            |
| Fr Guiana                | 1.050 o          | 1.050 o          | 1.050 o          | 1.050 o          | 1.050            | 1.050 e          |
| Guyana                   | 2.330 e        | 2.330 o        | 2.330 e        | 2.330 e        | 2.330 e          | 2.350 o          | 2.350 e          | 2.350 e          | 2.350 e          | 2.350 e          |
| Peru                     | 131.659 o      | 134.228 o      | 132.500 o      | 108.456 o      | 110.061 o        | 102.073 o        | 102.273 o        | 102.120 o        | 102.113 o        | 102.113 e        |
| South Georgia            | 0.180          | 0.180          | 0.180          | 0.180          | 0.180            | 0.180            | 0.180            | 0.180            | 0.180            | 0.193 o          |
| Suriname                 | 0.061 e        | 0.061 e        | 0.061 e        | 0.096 e        | 0.096 e          | 0.096 e          | 0.096 e          | 0.096 e          | 0.096 e          | 0.096 e          |
| Venezuela                | 0.810 e          | 0.810 e          | 0.810 e          | 0.810 e          | 0.810 e          | 0.810 e          |

\* Note: these figures exclude Eurasia, Europe and North America

\* Note : ces chiffres excluent l'Eurasie, l'Europe et l'Amérique du Nord

\* Nota: estas cifras excluyen Eurasia, Europa y Norteamérica

# Off-grid solar photovoltaic

## Solaire photovoltaïque hors réseau

## Solar fotovoltaica aislada

| CAP (MW)          | 2014             | 2015             | 2016             | 2017             | 2018             | 2019             | 2020             | 2021             | 2022             | 2023             |
|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| <b>World</b>      | <b>1 282.657</b> | <b>1 600.419</b> | <b>1 847.325</b> | <b>2 317.393</b> | <b>2 876.305</b> | <b>3 076.774</b> | <b>3 586.303</b> | <b>3 901.494</b> | <b>4 506.227</b> | <b>5 036.038</b> |
| <b>Africa</b>     | <b>157.498</b>   | <b>215.187</b>   | <b>285.556</b>   | <b>357.019</b>   | <b>476.148</b>   | <b>542.506</b>   | <b>657.451</b>   | <b>792.163</b>   | <b>922.256</b>   | <b>960.089</b>   |
| Algeria           | 1.100            | 18.900 e         | 18.900 u         | 38.200 u         | 38.200 e         | 38.200 e         |
| Angola            | 0.320 e          | 0.320 e          | 0.328 e          | 0.424 e          | 0.437 e          | 1.366 e          | 1.374 e          | 1.441 e          | 1.460 e          | 1.460 e          |
| Benin             | 0.050 e          | 0.236 e          | 0.795 e          | 1.036 e          | 1.185 e          | 2.406 e          | 3.447 e          | 4.616 e          | 6.982 e          | 6.982 e          |
| Botswana          | 0.560 e          | 0.853 e          | 1.926 e          | 2.061 e          | 2.366 e          | 2.365 e          | 2.364 e          | 2.397 e          | 2.385 e          | 2.385 e          |
| Burkina Faso      | 1.824 e          | 2.750 e          | 3.165 e          | 3.452 e          | 18.895 e         | 20.039 e         | 20.529 e         | 21.314 e         | 21.909 e         | 21.909 e         |
| Burundi           | 0.023 e          | 0.320 e          | 1.17 e           | 1.465 e          | 1.477 e          | 1.517 e          | 1.657 e          | 1.115 e          | 0.960 e          | 0.960 e          |
| Cabo Verde        | 0.074 o          | 0.268 o          | 0.268 o          | 0.426 o          | 0.998 o          | 1.139 o          | 1.305 o          | 1.427 o          | 1.623 o          | 1.796 o          |
| Cameroon          | 0.067 e          | 0.134 e          | 0.153 e          | 11.580 e         | 11.841 e         | 12.697 e         | 13.560 e         | 26.236 e         | 26.312 e         | 26.312 e         |
| Cent Afr Rep      | 0.095 e          | 0.099 e          | 0.209 e          | 0.274 e          | 0.299 e          | 0.296 e          | 0.339 e          | 0.337 e          | 0.334 e          | 0.334 e          |
| Chad              | 0.050 e          | 0.172 e          | 0.180 e          | 0.190 e          | 0.562 e          | 0.557 e          | 0.606 e          | 1.092 e          | 1.138 e          | 1.138 e          |
| Comoros           |                  |                  | 0.805 e          | 1.146 e          | 1.146 e          | 1.165 e          | 1.152 e          | 0.362 e          | 0.034 e          | 0.034 e          |
| Congo DR          | 1.261 e          | 1.355 e          | 4.614 e          | 5.670 e          | 8.333 e          | 9.578 e          | 13.088 e         | 16.073 e         | 18.870 e         | 18.870 e         |
| Congo Rep         | 0.018 e          | 0.020 e          | 0.040 e          | 0.057 e          | 0.064 e          | 0.062 e          | 0.522 e          | 0.565 e          | 0.640 e          | 0.640 e          |
| Cote d'Ivoire     | 0.009 e          | 0.284 e          | 0.450 e          | 1.007 e          | 2.097 e          | 4.206 e          | 6.402 e          | 7.749 e          | 8.999 e          | 8.999 e          |
| Djibouti          | 0.300 e          | 0.300 e          | 0.362 u          | 0.362 u          | 0.362 u          | 0.362 e          |
| Egypt             | 15.000           | 16.000 o         | 30.000 o         | 30.000 o         | 44.200 o         | 30.200 o         | 32.000 o         | 30.500 o         | 66.000 u         | 66.000 e         |
| Eq Guinea         |                  |                  | 0.160 e          | 0.354 e          | 0.354 e          | 0.336 e          | 0.325 e          | 0.189 e          | 0.006 e          | 0.006 e          |
| Eritrea           | 7.859 e          | 7.859 e          | 9.014 e          | 23.354 e         | 25.864 e         | 25.919 e         | 25.906 e         | 25.125 e         | 24.785 e         | 24.785 e         |
| Eswatini          |                  |                  | 0.001 e          | 0.004 e          | 0.004 e          | 0.016 e          | 0.051 e          | 0.051 e          | 0.038 e          | 0.038 e          |
| Ethiopia          | 9.131            | 9.890            | 14.040           | 12.494           | 12.346           | 12.346           | 20.184           | 21.184           | 21.184 e         | 21.184 e         |
| Gabon             | 0.046 e          | 0.058 e          | 0.066 e          | 0.081 e          | 0.086 e          | 0.098 e          | 0.090 e          | 0.490 e          | 0.510 e          | 0.510 e          |
| Gambia            | 0.278 e          | 0.338 e          | 0.799 e          | 1.110 e          | 1.149 e          | 1.152 e          | 1.142 e          | 1.129 e          | 1.045 e          | 1.045 e          |
| Ghana             | 4.696 e          | 9.028 e          | 10.597 e         | 12.017 e         | 12.483 e         | 13.300 e         | 13.875 e         | 14.372 e         | 14.801 e         | 14.801 e         |
| Guinea            | 0.071 e          | 0.073 e          | 0.227 e          | 0.426 e          | 12.900 e         | 14.014 e         | 14.630 e         | 14.961 e         | 16.059 e         | 16.059 e         |
| Guinea Bissau     | 0.121 e          | 0.185 e          | 0.702 e          | 0.947 e          | 1.828 e          | 1.824 e          | 1.763 e          | 2.053 e          | 1.805 e          | 1.805 e          |
| Kenya             | 13.407 e         | 27.501 e         | 29.420 e         | 35.420 e         | 43.850 e         | 59.525 e         | 78.039 e         | 100.613 e        | 112.787 e        | 112.787 e        |
| Lesotho           | 0.158 e          | 0.158 e          | 0.159 e          | 0.159 e          | 0.094 e          | 0.319 e          | 0.325 e          | 0.290 e          | 0.460 e          | 0.460 e          |
| Liberia           | 0.109 e          | 0.133 e          | 0.362 e          | 0.731 e          | 1.113 e          | 1.553 e          | 2.440 e          | 2.766 e          | 3.389 e          | 3.389 e          |
| Libya             | 4.900 u          | 4.900 u          | 5.110 u          | 5.110 u          | 5.110 e          | 5.111 e          | 6.333 u          | 6.333 e          | 6.333 e          | 6.333 e          |
| Madagascar        | 0.282 e          | 0.437 e          | 1.243 e          | 1.781 e          | 1.999 e          | 2.997 e          | 4.284 e          | 4.153 e          | 4.904 e          | 4.904 e          |
| Malawi            | 0.308 e          | 0.711 e          | 2.024 e          | 2.635 e          | 2.939 e          | 3.153 e          | 5.116 e          | 5.439 e          | 6.465 e          | 6.465 e          |
| Mali              | 4.306 e          | 5.334 e          | 5.865 e          | 7.705 e          | 8.199 e          | 9.234 e          | 9.501 e          | 40.502 e         | 41.017 e         | 41.017 e         |
| Mauritania        | 3.151 o          | 3.166 o          | 19.766 o         | 19.766 o         | 21.066 u         | 21.209 u         | 21.209 e         | 21.209 e         | 21.209 e         | 55.209 u         |
| Mauritius         | 0.107 e          | 0.134 e          | 0.915 e          | 3.287 e          | 3.440 e          | 4.815 e          | 4.148 e          | 3.380 e          | 1.364 e          | 1.364 e          |
| Morocco           | 18.800           | 18.800           | 20.870           | 22.895 o         | 22.895 o         | 22.903 o         | 23.000           | 23.000 e         | 23.000 e         | 23.000 e         |
| Mozambique        | 1.300            | 1.300            | 1.300            | 1.300            | 1.300            | 1.350            | 2.343            | 2.343            | 2.343            | 2.343            |
| Namibia           | 1.359 e          | 1.359 e          | 1.368 e          | 1.409 e          | 13.602 e         | 13.893 e         | 14.382 e         | 14.400 e         | 14.414 e         | 14.414 e         |
| Niger             | 6.457 e          | 6.472 e          | 6.631 e          | 6.847 e          | 6.973 e          | 7.100 e          | 7.691 e          | 7.555 e          | 7.954 e          | 7.954 e          |
| Nigeria           | 3.964 e          | 10.600 e         | 13.482 e         | 18.868 e         | 23.298 e         | 35.360 e         | 51.172 e         | 67.049 e         | 92.408 e         | 92.408 e         |
| Reunion           | 0.001 e          | 1.341 e          | 1.501 e          | 1.501 e          | 1.501 e          | 1.501 e          |
| Rwanda            | 1.235 e          | 1.861 e          | 3.071 e          | 4.501 e          | 6.194 e          | 9.700 e          | 11.296 e         | 12.655 e         | 13.969 e         | 13.969 e         |
| Sao Tome Prn      |                  |                  | 0.154 e          | 0.348 e          | 0.348 e          | 0.349 e          | 0.339 e          | 0.203 e          | 0.013 e          | 0.013 e          |
| Senegal           | 0.247 e          | 0.501 e          | 0.861 e          | 1.664 e          | 3.606 e          | 4.750 e          | 5.365 e          | 6.352 e          | 6.844 e          | 6.844 e          |
| Seychelles        | 0.068 o          | 0.068 o          | 0.873 e          | 1.214 e          | 2.068 e          | 2.053 e          | 2.040 e          | 4.173 e          | 3.845 e          | 3.845 e          |
| Sierra Leone      | 0.069 e          | 0.198 e          | 0.598 e          | 1.401 e          | 1.381 e          | 4.416 e          | 6.526 e          | 14.646 e         | 14.975 e         | 14.975 e         |
| Somalia           | 0.131 e          | 0.163 e          | 1.105 e          | 1.582 e          | 2.268 e          | 2.439 e          | 10.909 e         | 18.809 e         | 42.409 e         | 45.909 e         |
| South Africa      | 1.899 e          | 2.214 e          | 2.489 e          | 5.271 e          | 5.132 e          | 5.560 e          | 5.325 e          | 5.221 e          | 5.150 e          | 5.150 e          |
| South Sudan       | 0.098 e          | 0.107 e          | 0.163 e          | 0.250 e          | 0.737 e          | 0.803 e          | 0.805 e          | 1.967 e          | 1.967 e          | 1.967 e          |
| Sudan             | 16.584 u         | 19.911 u         | 26.219 u         | 35.800 u         | 59.478 u         | 80.199 u         | 116.840 u        | 135.570 u        | 135.570 e        | 135.570 e        |
| Tanzania          | 11.159 e         | 12.766 e         | 12.228 e         | 13.111 e         | 17.381 e         | 15.436 e         | 16.668 e         | 19.054 e         | 19.817 e         | 19.817 e         |
| Togo              | 0.022 e          | 0.062 e          | 0.082 e          | 0.572 e          | 4.392 e          | 7.278 e          | 10.062 e         | 13.480 e         | 15.420 e         | 15.420 e         |
| Tunisia           | 1.563 e          | 1.710 e          | 2.060 e          | 2.076 e          | 2.076 e          | 7.076 u          | 7.076 e          | 7.076 e          | 7.076 e          | 7.076 e          |
| Uganda            | 20.000 e         | 22.000 e         | 24.000 e         | 26.600 e         | 26.600 e         | 26.760 e         | 26.920 e         | 27.079 e         | 27.239 e         | 27.399 e         |
| Zambia            | 0.201 e          | 0.685 e          | 1.594 e          | 2.337 e          | 4.429 e          | 6.483 e          | 7.378 e          | 7.888 e          | 9.099 e          | 9.099 e          |
| Zimbabwe          | 2.670 e          | 2.493 e          | 2.835 e          | 3.541 e          | 4.003 e          | 3.682 e          | 4.067 e          | 3.317 e          | 2.874 e          | 2.874 e          |
| <b>Asia</b>       | <b>998.654</b>   | <b>1 187.398</b> | <b>1 334.830</b> | <b>1 695.342</b> | <b>1 985.092</b> | <b>2 087.900</b> | <b>2 459.461</b> | <b>2 615.622</b> | <b>3 045.620</b> | <b>3 482.047</b> |
| Afghanistan       | 18.363 e         | 18.931 e         | 20.200 e         | 20.641 e         | 20.416 e         | 19.931 e         | 19.353 e         | 19.526 e         | 21.543 u         | 21.543 e         |
| Bangladesh        | 168.667 e        | 191.506 e        | 151.036 e        | 194.667 e        | 190.818 e        | 200.992 e        | 206.326 e        | 202.495 e        | 166.398 e        | 153.927 e        |
| Bhutan            | 0.275 e          | 0.403 u          | 0.403 u          |
| Brunei Darussalam | 0.014 u          | 0.014 u          | 0.014 u          | 0.015 u          | 0.015 u          | 0.016 u          | 0.027 u          | 0.047 u          | 0.047 u          | 0.047 e          |
| Cambodia          | 0.742 e          | 1.245 e          | 1.923 e          | 2.027 e          | 1.496 e          | 1.298 e          | 0.770 e          | 1.528 e          | 1.517 e          | 1.537 e          |
| China             | 337.800          | 357.800          | 367.800          | 376.800          | 385.800          | 394.800 e        | 403.800 u        | 412.800 e        | 421.800 e        | 430.800 e        |
| India             | 384.835 e        | 489.620 e        | 640.976 e        | 875.977 e        | 1 130.251 e      | 1 177.163 e      | 1 510.674 e      | 1 633.081 e      | 1 966.434 e      | 2 196.842 e      |
| Indonesia         | 32.627 e         | 41.678 e         | 41.784 e         | 42.927 e         | 41.050 o         | 50.010 o         | 55.960 o         | 69.750 o         | 122.820 o        | 313.690 o        |
| Korea DPR         | 10.958 u         | 22.794 u         | 31.534 u         | 34.780 u         | 48.330 e         | 61.880 e         | 75.430 e         | 88.980 e         | 102.530 e        | 116.080 e        |
| Lao PDR           | 1.061 e          | 1.413 e          | 1.568 e          | 1.568 e          | 1.568 e          | 1.568 e          | 1.580 e          | 1.614 e          | 1.614 e          | 1.614 e          |
| Malaysia          | 1.528 e          | 2.415 e          | 2.462 e          | 2.579 e          | 7.629 e          | 7.610 e          | 7.794 e          | 7.825 e          | 7.874 e          | 7.874 e          |
| Maldives          | 3.882 o          | 4.799 o          | 7.488 o          | 10.791 o         | 16.478 o         | 20.605 u         | 26.705 u         | 30.805 u         | 35.805 o         | 37.055 e         |
| Mongolia          | 4.585 e          | 4.585 e          | 4.585 e          | 4.585 e          | 4.585 o          | 4.585 e          |
| Myanmar           | 6.271 o          | 20.819 o         | 32.008 o         | 43.781 o         | 47.542 o         | 48.482 o         | 44.496 o         | 40.447 e         | 88.100 e         | 88.100 e         |
| Nepal             | 10.870 e         | 12.741 e         | 13.004 e         | 53.137 e         | 54.027 e         | 52.693 e         | 53.954 e         | 53.231 e         | 54.709 e         | 54.709 e         |
| Pakistan          | 0.294 e          | 0.444 e          | 0.507 e          | 12.315 e         | 13.382 e         | 15.540 e         | 16.844 e         | 16.939 e         | 16.606 e         | 16.606 e         |
| Philippines       | 1.496 e          | 1.740 e          | 1.858 e          | 2.177 e          | 5.138 e          | 13.386 e         | 14.058 e         | 14.869 e         | 16.098 e         | 19.754 e         |
| Sri Lanka         | 7.724 e          | 7.725 e          | 7.760 e          | 7.743 e          | 7.659 e          |
| Timor Leste       | 1.172 e          | 1.364 e          | 1.358 e          | 1.042 e          | 0.818 e          | 0.592 e          | 0.356 e          | 0.351 e          | 0.391 e          | 0.407 e          |
| Uzbekistan        | 1.000            | 1.000            | 2.200            | 3.025            | 3.325            | 3.325 e          | 3.325            | 3.325 e          | 3.325            | 3.325 e          |
| Viet Nam          | 4.490 e          | 5.490 e          |

# Off-grid solar photovoltaic

## Solaire photovoltaïque hors réseau

## Solar fotovoltaica aislada

| CAP (MW)                 | 2014          | 2015           | 2016           | 2017           | 2018           | 2019           | 2020           | 2021           | 2022           | 2023           |
|--------------------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| <b>C America + Carib</b> | <b>14.718</b> | <b>19.194</b>  | <b>14.762</b>  | <b>16.481</b>  | <b>18.935</b>  | <b>33.776</b>  | <b>41.885</b>  | <b>48.769</b>  | <b>55.173</b>  | <b>64.725</b>  |
| Antigua Barb             |               |                | 0.010 e        | 0.414 e        |
| Bahamas                  | 0.501 u       | 0.867 u        | 0.920 u        | 0.866 u        | 0.835 u        | 0.778 u        | 0.778 e        | 4.778 u        | 4.778 e        | 4.778 e        |
| Belize                   | 0.015 u       | 0.019 u        | 0.019 u        | 0.026 u        | 0.026 u        | 0.620 u        | 0.620 e        | 0.620 e        | 0.620 u        | 0.620 e        |
| BES Islands              |               |                |                |                |                |                |                |                |                | 0.130 u        |
| Br Virgin Is             | 0.051 u       | 0.763 u        | 0.925 o        | 0.926 o        | 0.935 o        | 0.990 o        | 1.195 o        | 1.184 o        | 1.199 o        | 2.199 o        |
| Costa Rica               | 1.077 e       | 1.344 e        | 1.432 e        | 1.541 e        | 1.568 e        | 1.581 e        | 1.640 e        | 1.770 e        | 1.770 e        | 1.770 e        |
| Cuba                     |               |                |                | 0.467 u        | 0.835 u        | 7.000 u        | 7.224 u        | 7.947          | 7.947 e        | 7.947 e        |
| Curacao                  | 0.004 o       | 0.004 o        | 0.004 o        | 0.004 o        | 0.004 o        | 0.004 o        | 0.004 o        | 0.004 o        | 0.004 o        | 0.004 e        |
| Dominican Rep            | 1.500         | 1.500          | 1.510          | 1.550          | 3.600          | 3.800          | 4.500          | 6.500          | 11.769         | 19.087         |
| El Salvador              | 0.044 o       | 0.065 o        | 0.065 o        | 0.089 o        | 0.089 o        | 4.077 o        | 4.081 o        | 4.123 o        | 4.123 o        | 4.123 e        |
| Guatemala                | 5.434 e       | 8.308 e        | 8.308 e        | 8.308 e        | 8.308 e        | 8.308 e        | 8.308 e        | 8.308 e        | 8.308 e        | 8.308 o        |
| Haiti                    | 0.927 e       | 1.154 e        | 1.425 u        | 1.505 u        | 1.524 u        | 1.577 u        | 1.498 u        | 1.498 e        | 1.498 e        | 1.498 e        |
| Honduras                 | 5.156 e       | 5.156 e        | 0.130 o        | 0.709 o        | 0.721 o        | 2.131 o        | 9.155 o        | 9.155 o        | 9.180 o        | 9.180 o        |
| Jamaica                  | 0.008 e       | 0.013 e        | 0.013 e        | 0.013 e        | 0.013 e        | 0.013 e        | 0.013 e        | 0.013 e        | 0.013 e        | 0.013 e        |
| Nicaragua                |               |                |                |                | 2.400 o        | 2.400 o        | 2.400 e        | 3.495 o        | 4.599 e        |                |
| Panama                   |               |                |                |                | 0.020 u        | 0.020 e        | 0.020 o        | 0.020 e        | 0.020 e        | 0.020 o        |
| Puerto Rico              |               |                |                | 0.062 e        | 0.062 e        | 0.062 e        | 0.034 e        | 0.034 e        | 0.034 e        | 0.034 o        |
| St Kitts Nevis           | 0.001 e       | 0.001 e        | 0.001 e        | 0.001 e        | 0.001 e        | 0.001 e        | 0.001 e        | 0.001 e        | 0.001 e        | 0.001 e        |
| <b>Middle East</b>       | <b>46.149</b> | <b>101.269</b> | <b>121.791</b> | <b>144.326</b> | <b>299.140</b> | <b>303.104</b> | <b>309.245</b> | <b>310.245</b> | <b>321.064</b> | <b>347.629</b> |
| Iran IR                  | 0.378         | 0.378          | 0.378          | 0.378          | 0.378 e        |
| Iraq                     | 36.500 o      | 36.500 e       | 39.000 e       | 39.000 e       |
| Jordan                   | 0.236 o       | 0.557 o        | 0.588 e        | 0.588 o        | 0.623 o        | 0.670 o        | 2.375 o        | 3.325 u        | 3.325 e        | 3.325 e        |
| Lebanon                  | 0.390 e       | 0.397 e        | 0.507 e        | 0.527 e        | 4.880 o        | 4.880 o        | 4.880 e        | 4.890 o        | 4.890 e        | 4.890 e        |
| Oman                     |               |                | 0.011 e        | 0.011 e        | 0.011 e        | 1.833 o        | 1.833 e        | 1.833 e        | 1.833 e        | 1.833 e        |
| Palestine                |               |                |                |                |                |                |                |                | 2.000 o        | 2.000 e        |
| Syrian AR                |               |                |                |                |                |                |                |                |                |                |
| United Arab Em           | 3.192 e       | 3.208 e        | 3.208 e        | 3.238 u        | 3.407 o        | 4.672 o        | 5.597 u        | 5.597 e        | 5.897 u        | 6.197 e        |
| Yemen                    | 5.453 e       | 60.229 e       | 80.599 e       | 103.084 e      | 253.341 e      | 254.160 e      | 257.671 e      | 257.711 e      | 263.730 e      | 289.995 u      |
| <b>Oceania</b>           | <b>8.266</b>  | <b>12.174</b>  | <b>16.426</b>  | <b>18.551</b>  | <b>21.006</b>  | <b>24.155</b>  | <b>24.781</b>  | <b>25.663</b>  | <b>27.880</b>  | <b>29.112</b>  |
| Amer Samoa               |               |                | 1.504 e        | 1.854 e        | 1.854 e        | 1.504 u        | 1.504 o        | 1.504 o        | 1.504 e        | 1.504 e        |
| Cook Is                  | 0.047 e       | 0.047 e        | 0.047 e        | 0.047 e        | 1.869 u        | 2.606 u        | 2.606 e        | 2.606 e        | 2.606 e        | 2.606 e        |
| Fiji                     | 1.248 u       | 2.494 u        | 4.497 u        | 4.564 u        | 4.977 u        | 5.068 u        | 5.170 u        | 5.459 u        | 5.750 u        | 6.881 e        |
| Fr Polynesia             | 2.700 o       | 2.900 o        | 3.000 o        | 3.300 o        | 3.200 o        | 3.300 o        | 3.300 o        | 3.300 e        | 3.300 e        | 3.300 e        |
| Kiribati                 | 0.743 o       | 1.389 o        | 1.397 o        | 1.397 o        | 1.397 e        |
| Marshall Is              | 0.650 e       | 0.650 e        | 0.650 e        | 0.710 e        | 0.726 e        |
| Micronesia               | 0.388 e       | 0.388 e        | 0.388 e        | 0.388 e        | 0.395 u        | 0.395 e        |
| Nauru                    | 0.008 e       | 0.008 e        | 0.008 e        | 0.009 e        | 0.009 e        | 0.167 e        | 0.158 e        | 0.158 e        | 0.158 e        | 0.158 e        |
| New Caledon              | 0.500 o       | 0.500 o        | 0.500 o        | 0.575 o        | 0.607 o        | 0.656 o        | 0.711 o        | 0.786 o        | 0.869 o        | 0.960 e        |
| Palau                    |               |                | 0.170 o        | 0.170 o        | 0.170 e        | 0.235 u        | 0.538 o        | 0.538 e        | 0.538 e        | 0.538 e        |
| Papua N Guin             | 0.339 e       | 0.878 u        | 1.229 u        | 1.195 u        | 0.958 u        | 2.696 e        | 2.810 e        | 3.346 e        | 3.437 e        | 3.437 e        |
| Samoa                    | 0.014 e       | 0.014 e        | 0.014 e        | 0.039 e        | 0.039 e        | 0.197 e        |
| Solomon Is               | 1.076 e       | 1.076 e        | 1.107 e        | 1.482 e        | 1.482 e        | 1.369 e        | 1.369 e        | 1.369 e        | 3.079 e        | 3.079 e        |
| Tokelau                  | 0.021 u       | 0.021 u        | 0.021 u        | 0.021 e        |
| Tonga                    | 0.234 o       | 0.240 o        | 0.277 o        | 0.277 o        | 0.437 u        | 0.437 e        |
| Tuvalu                   | 0.192 o       | 1.308 o        | 1.316 o        | 1.321 o        | 1.332 o        | 1.332 o        | 1.332 e        | 1.332 e        | 1.332 e        | 1.332 e        |
| Vanuatu                  | 0.106 e       | 0.261 e        | 0.301 e        | 1.202 e        | 1.533 e        | 2.049 u        | 2.110 u        | 2.092 u        | 2.134 u        | 2.144          |
| <b>S America</b>         | <b>57.372</b> | <b>65.197</b>  | <b>73.960</b>  | <b>85.674</b>  | <b>75.984</b>  | <b>85.333</b>  | <b>93.480</b>  | <b>109.032</b> | <b>134.234</b> | <b>152.436</b> |
| Argentina                | 7.321         | 7.321          | 7.320          | 7.320          | 7.320          | 7.330          | 6.868          | 10.890         | 12.242         | 11.502         |
| Bolivia                  | 5.535         | 5.160          | 5.160          | 4.860          | 4.860 o        | 5.250 o        | 5.480          | 5.280          | 5.280          | 5.280          |
| Brazil                   | 0.721 e       | 3.930 e        | 4.091 e        | 7.212 e        | 7.227 e        | 7.241 o        | 7.241 o        | 7.241 e        | 7.241 e        |                |
| Chile                    | 0.069 e       | 0.079 e        | 0.105 e        | 0.233 e        | 0.296 e        | 0.333 e        | 0.420 e        | 0.553 e        | 0.548 e        | 0.548 e        |
| Colombia                 | 1.418         | 1.463          | 1.520          | 1.520          | 3.577          | 4.636 o        | 11.826 o       | 22.262 o       | 37.233 o       | 50.800 o       |
| Ecuador                  | 1.940         | 1.940          | 2.010          | 2.010          | 3.169 o        | 3.169 o        | 3.169 o        | 3.192 o        | 4.192          | 6.388          |
| Falklands Malv           |               | 0.070 o        | 0.070 o        | 0.070 o        | 0.070 o        | 0.070 e        |
| Fr Guiana                | 0.161 o       | 0.161 o        | 0.161 o        | 0.161 o        | 0.161 o        | 0.161 o        | 0.161 o        | 0.161          | 0.161          | 0.161 e        |
| Guyana                   | 1.061         | 1.476          | 1.652          | 1.665          | 1.684          | 1.808          | 1.808 e        | 1.808 e        | 1.808 e        | 4.967 e        |
| Paraguay                 | 0.057 o       | 0.057 o        | 0.057 o        | 0.057 o        | 0.057 o        | 0.057 o        | 0.150          | 0.150          | 1.166          | 1.166 e        |
| Peru                     | 34.484 e      | 38.914 e       | 46.147 e       | 53.379 e       | 39.675         | 45.746         | 45.746 e       | 45.746 o       | 45.746 e       | 45.746 e       |
| Suriname                 | 1.195 e       | 1.195 e        | 1.660          | 2.632          | 2.764 e        | 2.764 e        | 3.420 e        | 3.420 e        | 3.420 e        | 3.420 e        |
| Uruguay                  | 0.540         | 0.561          | 1.137 o        | 1.685 o        | 2.254 o        | 3.898 o        | 4.251 o        | 5.389 o        | 12.257 o       | 12.277 o       |
| Venezuela                | 2.870 e       | 2.870 e        | 2.870 e        | 2.870 e        | 2.870 e        | 2.870 e        | 2.870 e        | 2.870 e        | 2.870 e        | 2.870 e        |

\* Note: these figures exclude Eurasia, Europe and North America

\* Note : ces chiffres excluent l'Eurasie, l'Europe et l'Amérique du Nord

\* Nota: estas cifras excluyen Eurasia, Europa y Norteamérica

# Other off-grid renewable energy

## Autres énergies renouvelables hors réseau

## Otras energías renovables aislada

| CAP (MW)                 | 2014             | 2015             | 2016             | 2017             | 2018             | 2019             | 2020             | 2021             | 2022             | 2023             |
|--------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| <b>World</b>             | <b>4 454.699</b> | <b>4 782.198</b> | <b>4 954.893</b> | <b>4 394.062</b> | <b>4 620.478</b> | <b>4 470.611</b> | <b>4 556.965</b> | <b>5 000.622</b> | <b>5 855.883</b> | <b>6 198.313</b> |
| <b>Africa</b>            | <b>80.377</b>    | <b>79.747</b>    | <b>82.448</b>    | <b>122.883</b>   | <b>123.373</b>   | <b>123.373</b>   | <b>123.373</b>   | <b>143.373</b>   | <b>143.369</b>   | <b>143.369</b>   |
| Algeria                  | 10.200           | 10.200           | 10.200           | 10.200 e         | 10.000 e         |
| Burkina Faso             | 0.150 u          | 0.150 u          | 0.150 e          |
| Burundi                  | 4.000 e          |
| Chad                     |                  |                  | 1.100 u          | 1.100 e          | 1.100 e          | 1.100 e          | 1.100 o          | 1.100 e          | 1.100 e          | 1.100 e          |
| Congo DR                 | 0.160 e          | 0.160 e          | 0.160 e          | 2.160 e          | 2.960 e          |
| Djibouti                 |                  |                  |                  |                  |                  |                  |                  | 20.000 u         | 20.000 e         | 20.000 e         |
| Egypt                    | 5.000 o          | 5.000 e          | 5.000 e          | 5.000 e          |
| Eritrea                  | 0.825 e          |
| Ethiopia                 |                  |                  | 0.006 u          | 0.006 e          |
| Gabon                    |                  | 1.200 e          |
| Ghana                    | 8.274 e          | 8.294 e          |
| Kenya                    | 0.554 e          | 0.604 e          | 0.604 e          | 0.714 e          | 0.604 e          | 0.604 e          | 0.604 e          | 0.604 e          | 0.600 e          | 0.600 o          |
| Liberia                  | 0.070 e          | 0.070 e          | 0.130 u          | 0.205 e          |
| Madagascar               | 0.411 o          | 0.411 o          | 0.411 o          | 0.411 e          |
| Mali                     | 5.366 e          | 5.366 e          | 5.366 e          | 40.366 e         | 40.366 e         | 40.366 e         | 40.366 e         | 40.366 e         | 40.366 e         | 40.366 e         |
| Mauritania               | 4.400 o          | 4.400 o          | 4.400 o          | 4.400 o          | 4.400 e          |
| Morocco                  | 5.000            | 5.000            | 5.000            | 5.000            | 5.000            | 5.000 e          |
| Nigeria                  | 7.507 e          | 7.507 e          | 9.017 e          |
| Somalia                  | 2.200 u          | 2.800 u          | 2.800 u          | 3.550 u          | 3.550 e          |
| Tanzania                 | 26.260 u         | 23.760 e         | 23.785 e         | 26.285 e         |
| <b>Asia</b>              | <b>3 961.218</b> | <b>4 220.324</b> | <b>4 372.490</b> | <b>3 734.369</b> | <b>3 928.870</b> | <b>3 767.992</b> | <b>3 854.316</b> | <b>4 235.718</b> | <b>5 081.393</b> | <b>5 423.823</b> |
| Afghanistan              | 0.100 e          |
| Bangladesh               | 5.120 e          | 6.650 e          | 7.050 e          | 7.050 e          | 7.050 e          | 7.350 e          |
| Cambodia                 | 25.450 e         | 26.950 e         |
| China                    | 249.130          | 297.730          | 342.690          | 370.390          | 401.150          | 431.910 e        | 462.670 o        | 493.430 e        | 524.190 e        | 554.950 e        |
| India                    | 736.305 e        | 785.371 e        | 843.616 e        | 849.946 e        | 896.347 e        | 866.629 e        | 964.169 e        | 968.369 e        | 1 020.369 e      |                  |
| Indonesia                | 1 626.000 o      | 1 626.000 o      | 1 633.000 e      | 1 669.000 e      | 1 685.260 e      | 1 687.260 e      | 1 716.220 e      | 2 082.810 e      | 2 893.410 e      | 3 153.050 e      |
| Korea DPR                | 0.750 u          | 0.860 u          | 0.970 u          | 1.330 u          | 1.330 u          | 1.330 u          | 1.600 u          | 1.600 e          | 1.600 e          | 1.600 e          |
| Lao PDR                  |                  |                  |                  | 0.290 o          | 0.290 o          | 0.290 o          | 0.290 o          | 0.290 e          | 0.290 e          | 0.290 e          |
| Malaysia                 | 1 100.000 o      | 1 237.800 o      | 1 243.000 o      | 531.640 e        |
| Maldives                 | 1.407 e          |
| Mongolia                 | 1.006 e          | 1.006 e          | 1.006 e          | 1.006 e          | 1.006 o          | 1.006 e          | 1.000            | 0.994            | 0.989 e          | 0.989 e          |
| Myanmar                  | 52.375 e         | 47.875 e         | 49.221 e         | 51.618 e         | 56.308 e         | 58.358 e         |
| Nepal                    | 0.069 u          | 0.069 u          | 0.069 u          | 0.503 e          | 0.603 u          | 0.633 u          | 0.633 e          | 1.191 e          | 1.311 e          | 1.311 e          |
| Pakistan                 | 0.561 e          | 0.561 e          | 0.561 e          | 0.579 e          |
| Philippines              | 20.925 e         | 20.925 e         | 29.830 e         | 29.830 e         | 29.830 e         | 45.830 o         | 45.830 e         | 45.830 e         | 45.830 e         | 45.830 e         |
| Timor Leste              | 0.020 e          | 0.050 e          |
| Viet Nam                 | 142.000 e        | 167.000 e        | 193.000 e        | 193.000 e        | 289.000 e        | 107.000 e        | 35.500 e         | 19.000 e         | 19.000 e         | 19.000 e         |
| <b>C America + Carib</b> | <b>83.715</b>    | <b>88.105</b>    | <b>90.473</b>    | <b>121.473</b>   | <b>121.497</b>   | <b>122.248</b>   | <b>122.248</b>   | <b>122.248</b>   | <b>124.588</b>   | <b>124.588</b>   |
| Bahamas                  | 0.300 e          |
| Belize                   | 0.020 u          | 0.020 e          |
| Br Virgin Is             | 0.500 o          | 0.801 u          |
| Cuba                     |                  |                  |                  |                  |                  | 0.450 e          |
| Dominica                 | 0.001 e          |
| Dominican Rep            | 19.280 o         | 19.770 o         | 20.050 o         | 51.050 o         | 53.390 o         | 53.390           |
| Haiti                    |                  |                  |                  | 0.024 u          | 0.024 e          |
| Honduras                 | 3.514 e          | 7.414 e          |
| Nicaragua                |                  | 1.912 o          | 1.912 o          | 1.912 e          |
| Panama                   | 60.000 e         | 60.000 o         |
| St Lucia                 |                  | 0.176            | 0.176            | 0.176 e          |
| US Virgin Is             | 0.100 o          | 0.100 o          | 0.100 o          | 0.100 e          | 0.100            |
| <b>Middle East</b>       | <b>6.000</b>     | <b>6.000</b>     | <b>6.000</b>     | <b>6.000</b>     | <b>6.000</b>     | <b>6.010</b>     | <b>6.015</b>     | <b>6.015</b>     | <b>6.015</b>     | <b>6.015</b>     |
| Jordan                   |                  |                  |                  |                  |                  | 0.010 o          | 0.010 o          | 0.010 e          | 0.010 e          | 0.010 e          |
| Kuwait                   | 2.400 e          |
| Lebanon                  | 3.000 u          | 3.000 e          |
| Syrian AR                | 0.600 e          |
| Yemen                    |                  |                  |                  |                  |                  | 0.005 o          | 0.005 e          | 0.005 e          | 0.005 e          | 0.005 e          |
| <b>Oceania</b>           | <b>69.134</b>    | <b>69.094</b>    | <b>69.094</b>    | <b>69.094</b>    | <b>69.095</b>    | <b>69.095</b>    | <b>69.095</b>    | <b>69.095</b>    | <b>69.095</b>    | <b>69.095</b>    |
| Fiji                     | 0.024 u          | 0.024 e          |
| Fr Polynesia             | 0.248 e          |
| Marshall Is              | 0.010 e          | 0.010 e          | 0.010 e          | 0.010 e          | 0.011 u          | 0.011 e          |
| Papua N Guin             | 68.312 e         |
| Solomon Is               | 0.500 e          | 0.500 u          | 0.500 u          | 0.500 u          | 0.500 u          | 0.500 e          |
| Vanuatu                  | 0.040 e          |                  |                  |                  |                  |                  |                  |                  |                  |                  |

## Other off-grid renewable energy

### Autres énergies renouvelables hors réseau

### Otras energías renovables aislada

| CAP (MW)         | 2014           | 2015           | 2016           | 2017           | 2018           | 2019           | 2020           | 2021           | 2022           | 2023           |
|------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| <b>S America</b> | <b>254.255</b> | <b>318.928</b> | <b>334.388</b> | <b>340.243</b> | <b>371.643</b> | <b>381.903</b> | <b>381.923</b> | <b>424.173</b> | <b>431.423</b> | <b>431.423</b> |
| Argentina        | 91.335         | 91.335         | 91.335         | 91.350         | 91.350         | 91.350 o       | 91.350 e       | 91.350 e       | 91.350         | 91.350         |
| Bolivia          | 24.140         | 85.300         | 85.300         | 76.000         | 117.500        | 122.500        | 122.500        | 121.630        | 121.630        | 121.630        |
| Colombia         | 0.059 o        | 0.059 o        | 0.059 o        | 0.099 o        | 0.099 o        | 0.059 e        | 0.059 e        | 5.579 e        | 5.579 o        | 5.579 e        |
| Ecuador          | 4.650 o        | 4.650 o        | 4.650 o        | 4.650 o        | 4.650 e        | 4.650 o        | 4.650 o        | 4.650 o        | 4.650          | 4.650          |
| Falklands Malv   | 0.340 e        | 0.340 o        | 0.340 o        | 0.340 o        | 0.340 o        | 0.340 e        |
| Fr Guiana        |                |                |                |                |                | 3.100 o        | 3.100 e        | 3.100 o        | 3.100          | 3.100 e        |
| Guyana           | 43.325 e       | 43.438 e       | 33.898 e       | 33.898 e       | 19.498 e       |
| Paraguay         |                |                |                |                |                |                | 0.020          | 0.020          | 0.020          | 0.020 e        |
| Peru             | 39.400 o       | 41.300         | 66.300 o       | 76.300 o       | 74.400 e       | 74.400 e       | 74.400 e       | 66.000 o       | 73.250 e       | 73.250 e       |
| South Georgia    | 0.006          | 0.006          | 0.006          | 0.006          | 0.006          | 0.006          | 0.006 e        | 0.006 e        | 0.006 e        | 0.006 e        |
| Suriname         |                | 1.500 o        | 1.500 e        |
| Uruguay          | 0.800          | 0.800          | 0.800          | 5.900          | 12.100 o       | 14.300 o       | 14.300 o       | 14.300 e       | 14.300 o       | 14.300 o       |
| Venezuela        | 50.200 e       | 96.200 e       | 96.200 e       | 96.200 e       |

\* Note: these figures exclude Eurasia, Europe and North America

\* Note : ces chiffres excluent l'Eurasie, l'Europe et l'Amérique du Nord

\* Nota: estas cifras excluyen Eurasia, Europa y Norteamérica

**Other indicators**

**Autres indicateurs**

**Otros indicadores**

# Renewable energy share of electricity capacity

## Part d'énergie renouvelable dans la puissance installée

## Porcentaje de energía renovable en la capacidad instalada

| CAP (%MW)     | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 |
|---------------|------|------|------|------|------|------|------|------|------|------|
| World         | 28.2 | 29.5 | 30.8 | 32.1 | 33.1 | 34.6 | 36.6 | 38.4 | 40.3 | 43.0 |
| Africa        | 19.3 | 19.8 | 19.8 | 20.9 | 21.3 | 21.6 | 22.3 | 22.6 | 23.6 | 24.3 |
| Algeria       | 1.6  | 1.7  | 2.5  | 2.9  | 2.7  | 2.5  | 2.3  | 2.0  | 2.2  | 2.1  |
| Angola        | 43.6 | 42.6 | 55.9 | 51.1 | 57.1 | 59.4 | 61.6 | 61.6 | 63.3 | 63.4 |
| Benin         | 0.7  | 1.9  | 1.3  | 1.4  | 1.7  | 1.4  | 1.7  | 2.1  | 10.1 | 10.1 |
| Botswana      | 0.2  | 0.2  | 0.4  | 0.4  | 0.4  | 0.6  | 0.6  | 0.7  | 0.7  | 0.7  |
| Burkina Faso  | 11.7 | 11.4 | 11.7 | 20.3 | 23.6 | 21.1 | 21.2 | 19.2 | 24.0 | 35.2 |
| Burundi       | 72.9 | 73.0 | 73.3 | 51.7 | 51.7 | 51.8 | 51.8 | 54.8 | 60.1 | 60.1 |
| Cabo Verde    | 23.2 | 18.6 | 18.8 | 18.9 | 21.1 | 23.5 | 22.7 | 23.7 | 23.2 | 25.1 |
| Cameroon      | 56.2 | 53.9 | 53.9 | 51.7 | 51.5 | 54.1 | 54.1 | 54.4 | 54.5 | 55.5 |
| Cent Afr Rep  | 46.3 | 46.3 | 46.4 | 46.5 | 46.5 | 46.5 | 46.6 | 21.0 | 21.0 | 38.0 |
| Chad          | 0.7  | 0.8  | 1.1  | 1.2  | 1.3  | 1.3  | 1.5  | 1.6  | 1.7  | 1.7  |
| Comoros       | 6.3  | 6.3  | 9.4  | 10.7 | 10.7 | 10.8 | 10.7 | 7.7  | 20.2 | 20.2 |
| Congo DR      | 98.9 | 98.8 | 98.8 | 98.8 | 98.8 | 98.8 | 98.8 | 98.8 | 97.5 | 97.7 |
| Congo Rep     | 32.7 | 32.7 | 33.4 | 34.6 | 34.6 | 34.6 | 27.5 | 27.5 | 27.5 | 27.5 |
| Cote d'Ivoire | 36.2 | 33.3 | 31.3 | 39.9 | 39.9 | 39.5 | 39.5 | 38.9 | 36.0 | 37.0 |
| Djibouti      | 0.2  | 0.2  | 0.3  | 0.3  | 0.3  | 0.3  | 0.3  | 14.2 | 14.2 | 39.5 |
| Egypt         | 10.6 | 10.4 | 9.5  | 8.4  | 8.6  | 9.7  | 10.0 | 10.5 | 10.6 | 11.2 |
| Eq Guinea     | 36.1 | 36.1 | 33.8 | 31.8 | 31.8 | 31.8 | 31.8 | 31.7 | 31.7 | 31.7 |
| Eritrea       | 5.9  | 5.2  | 5.8  | 10.6 | 11.5 | 11.5 | 11.5 | 11.2 | 11.1 | 11.1 |
| Eswatini      | 94.4 | 94.4 | 94.4 | 94.4 | 94.4 | 94.4 | 94.4 | 94.7 | 94.7 | 94.7 |
| Ethiopia      | 92.1 | 94.8 | 96.4 | 97.8 | 98.1 | 97.7 | 97.8 | 97.9 | 98.2 | 98.2 |
| Gabon         | 55.2 | 55.2 | 52.9 | 53.5 | 54.3 | 54.3 | 54.3 | 54.3 | 54.3 | 54.3 |
| Gambia        | 2.4  | 2.6  | 3.3  | 3.7  | 1.8  | 2.1  | 2.1  | 1.9  | 1.8  | 1.8  |
| Ghana         | 56.4 | 50.3 | 42.7 | 35.3 | 34.8 | 32.5 | 31.8 | 31.4 | 31.0 | 31.0 |
| Guinea        | 38.0 | 61.1 | 62.0 | 60.3 | 60.7 | 62.5 | 61.6 | 66.0 | 66.0 | 66.0 |
| Guinea Bissau | 0.4  | 0.7  | 2.4  | 3.3  | 6.1  | 6.1  | 5.9  | 6.8  | 6.1  | 6.1  |
| Kenya         | 65.4 | 65.3 | 66.1 | 67.6 | 71.8 | 72.1 | 75.4 | 76.7 | 79.6 | 80.0 |
| Lesotho       | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.4 |
| Liberia       | 5.2  | 5.2  | 21.8 | 48.9 | 49.0 | 49.1 | 49.4 | 49.4 | 49.6 | 49.6 |
| Libya         | 0.1  | 0.1  | 0.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.1  | 0.1  | 0.1  |
| Madagascar    | 24.1 | 24.2 | 24.3 | 22.4 | 23.1 | 23.2 | 23.3 | 23.3 | 28.1 | 28.1 |
| Malawi        | 93.4 | 93.6 | 91.7 | 80.7 | 76.7 | 75.0 | 75.1 | 78.3 | 79.7 | 79.7 |
| Mali          | 48.0 | 47.8 | 43.9 | 44.3 | 44.4 | 43.8 | 46.4 | 48.0 | 53.8 | 53.8 |
| Mauritania    | 8.8  | 11.3 | 14.3 | 14.3 | 21.2 | 20.8 | 20.8 | 19.5 | 19.7 | 34.0 |
| Mauritius     | 19.0 | 21.7 | 22.7 | 21.5 | 27.0 | 29.0 | 29.7 | 29.8 | 29.7 | 29.7 |
| Mayotte       | 14.5 | 14.3 | 11.9 | 13.3 | 13.7 | 14.5 | 15.8 | 23.3 | 23.3 | 24.0 |
| Morocco       | 26.7 | 28.2 | 28.9 | 28.7 | 29.8 | 30.5 | 33.0 | 33.1 | 34.3 | 36.5 |
| Mozambique    | 85.4 | 79.9 | 79.9 | 80.4 | 77.5 | 77.8 | 77.8 | 77.8 | 77.7 | 78.2 |
| Namibia       | 61.5 | 61.8 | 66.9 | 69.3 | 70.8 | 73.0 | 73.2 | 73.2 | 74.2 | 74.2 |
| Niger         | 2.5  | 2.5  | 2.5  | 2.0  | 4.0  | 3.8  | 4.0  | 4.0  | 10.0 | 15.1 |
| Nigeria       | 20.1 | 20.1 | 17.0 | 17.0 | 16.4 | 16.5 | 16.8 | 16.9 | 17.1 | 20.9 |
| Reunion       | 43.9 | 45.3 | 45.5 | 45.5 | 48.2 | 48.7 | 49.2 | 50.2 | 50.8 | 51.1 |
| Rwanda        | 59.0 | 51.6 | 49.3 | 50.4 | 50.7 | 53.6 | 55.7 | 55.9 | 50.4 | 50.4 |
| Sao Tome Prn  | 10.3 | 8.2  | 7.0  | 7.6  | 7.6  | 7.4  | 7.4  | 7.0  | 6.4  | 6.4  |
| Senegal       | 4.5  | 4.5  | 7.5  | 15.5 | 14.9 | 20.6 | 26.8 | 30.4 | 29.1 | 29.0 |
| Seychelles    | 7.6  | 7.8  | 7.8  | 8.6  | 9.8  | 9.3  | 11.6 | 17.5 | 17.8 | 17.8 |
| Sierra Leone  | 66.6 | 55.4 | 55.5 | 56.9 | 48.4 | 41.7 | 42.2 | 44.1 | 45.3 | 45.3 |
| Somalia       | 2.8  | 3.6  | 4.7  | 6.0  | 5.5  | 5.7  | 12.6 | 17.5 | 30.2 | 31.8 |
| South Africa  | 5.8  | 7.2  | 9.2  | 12.3 | 14.1 | 14.2 | 15.8 | 15.9 | 16.8 | 17.0 |
| South Sudan   | 0.1  | 0.1  | 0.2  | 0.2  | 0.6  | 0.5  | 1.1  | 1.8  | 1.8  | 7.5  |
| Sudan         | 46.5 | 46.5 | 46.1 | 46.2 | 47.4 | 47.7 | 48.2 | 48.4 | 49.2 | 49.2 |
| Tanzania      | 40.1 | 41.6 | 38.3 | 38.4 | 33.9 | 34.1 | 34.3 | 34.4 | 34.4 | 34.4 |
| Togo          | 27.9 | 27.9 | 27.9 | 28.1 | 29.2 | 30.0 | 31.0 | 37.4 | 37.7 | 37.7 |
| Tunisia       | 6.2  | 6.6  | 6.5  | 6.5  | 7.3  | 7.2  | 6.7  | 6.7  | 7.7  | 11.9 |
| Uganda        | 85.0 | 85.2 | 85.2 | 85.8 | 89.8 | 92.0 | 92.2 | 92.2 | 92.4 | 92.4 |
| Zambia        | 94.2 | 93.1 | 83.8 | 82.2 | 82.4 | 82.9 | 82.9 | 84.4 | 86.3 | 86.4 |
| Zimbabwe      | 41.7 | 42.2 | 42.3 | 42.4 | 49.7 | 49.8 | 49.9 | 50.3 | 49.5 | 39.8 |

# Renewable energy share of electricity capacity

## Part d'énergie renouvelable dans la puissance installée

## Porcentaje de energía renovable en la capacidad instalada

| CAP (%MW)                | 2014        | 2015        | 2016        | 2017        | 2018        | 2019        | 2020        | 2021        | 2022        | 2023        |
|--------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| <b>Asia</b>              | <b>25.7</b> | <b>27.2</b> | <b>28.6</b> | <b>30.3</b> | <b>31.7</b> | <b>33.1</b> | <b>35.7</b> | <b>37.7</b> | <b>39.7</b> | <b>43.4</b> |
| Afghanistan              | 55.8        | 56.1        | 59.6        | 61.1        | 61.1        | 57.9        | 57.9        | 58.4        | 64.0        | 64.0        |
| Bangladesh               | 3.5         | 3.4         | 2.9         | 3.2         | 2.6         | 2.6         | 2.6         | 3.3         | 3.1         | 3.6         |
| Bhutan                   | 99.3        | 99.3        | 99.5        | 99.5        | 99.5        | 99.7        | 99.6        | 99.6        | 99.6        | 99.6        |
| Brunei Darussalam        | 0.1         | 0.1         | 0.1         | 0.1         | 0.1         | 0.1         | 0.1         | 0.4         | 0.4         | 0.4         |
| Cambodia                 | 64.1        | 58.6        | 57.8        | 55.9        | 63.9        | 61.2        | 56.4        | 58.0        | 56.9        | 58.0        |
| China                    | 30.3        | 31.7        | 33.1        | 35.2        | 36.6        | 37.7        | 40.7        | 42.8        | 45.1        | 49.8        |
| China HK SAR             | 0.0         | 0.0         | 0.2         | 0.4         | 0.5         | 1.4         | 1.4         | 1.4         | 2.3         | 2.3         |
| Chinese Taipei           | 7.7         | 8.3         | 8.9         | 10.0        | 11.3        | 13.3        | 16.0        | 18.6        | 22.3        | 27.5        |
| India                    | 22.9        | 22.7        | 24.8        | 27.1        | 28.1        | 29.0        | 29.9        | 31.7        | 33.8        | 35.2        |
| Indonesia                | 15.4        | 15.7        | 15.5        | 15.2        | 15.1        | 14.8        | 14.4        | 15.5        | 15.0        | 14.6        |
| Japan                    | 17.5        | 20.7        | 22.3        | 24.3        | 26.0        | 28.5        | 30.2        | 31.8        | 33.3        | 34.8        |
| Kazakhstan               | 13.1        | 13.2        | 12.9        | 13.1        | 13.7        | 15.6        | 17.7        | 18.9        | 20.7        | 21.9        |
| Korea DPR                | 59.3        | 60.3        | 61.5        | 61.9        | 59.0        | 59.1        | 59.5        | 59.7        | 59.7        | 59.6        |
| Korea Rep                | 5.7         | 6.9         | 8.3         | 9.1         | 10.6        | 13.5        | 16.2        | 17.4        | 18.8        | 20.2        |
| Kyrgyzstan               | 82.3        | 85.3        | 85.3        | 85.4        | 85.3        | 85.3        | 85.3        | 75.1        | 77.6        | 77.6        |
| Lao PDR                  | 100.0       | 78.0        | 74.8        | 75.7        | 77.0        | 79.4        | 83.2        | 84.7        | 85.6        | 85.7        |
| Malaysia                 | 21.6        | 24.2        | 25.7        | 22.2        | 22.6        | 21.9        | 23.2        | 23.0        | 22.8        | 22.8        |
| Maldives                 | 3.6         | 4.2         | 4.0         | 5.4         | 3.3         | 4.0         | 5.1         | 5.8         | 6.6         | 6.8         |
| Mongolia                 | 7.4         | 7.4         | 8.3         | 13.9        | 18.4        | 19.4        | 18.4        | 18.0        | 18.0        | 18.0        |
| Myanmar                  | 69.4        | 64.8        | 64.8        | 58.1        | 53.8        | 52.6        | 44.5        | 49.5        | 49.1        | 49.1        |
| Nepal                    | 93.4        | 93.8        | 94.0        | 94.8        | 95.4        | 95.8        | 96.2        | 97.5        | 97.7        | 98.1        |
| Pakistan                 | 31.6        | 31.6        | 33.5        | 29.1        | 32.8        | 31.4        | 31.7        | 31.4        | 31.0        | 30.6        |
| Philippines              | 28.5        | 29.1        | 28.2        | 28.0        | 27.6        | 26.4        | 26.5        | 26.5        | 26.4        | 26.9        |
| Singapore                | 1.4         | 1.6         | 2.0         | 2.1         | 2.4         | 3.5         | 4.1         | 5.4         | 6.8         | 8.8         |
| Sri Lanka                | 45.3        | 47.3        | 48.5        | 49.8        | 51.6        | 51.5        | 53.0        | 57.6        | 61.4        | 62.9        |
| Tajikistan               | 92.3        | 92.3        | 87.4        | 87.4        | 87.4        | 88.9        | 88.9        | 88.9        | 88.9        | 88.9        |
| Thailand                 | 20.6        | 21.2        | 21.8        | 20.7        | 21.8        | 22.3        | 22.1        | 22.1        | 21.4        | 21.4        |
| Timor Leste              | 0.5         | 0.5         | 0.5         | 0.4         | 0.3         | 0.3         | 0.2         | 0.2         | 0.2         | 0.2         |
| Turkmenistan             | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         |
| Uzbekistan               | 14.4        | 14.2        | 13.3        | 12.9        | 13.5        | 12.0        | 12.2        | 13.0        | 14.0        | 14.9        |
| Viet Nam                 | 46.7        | 43.7        | 43.8        | 41.7        | 41.1        | 47.7        | 55.8        | 56.2        | 56.7        | 55.6        |
| <b>C America + Carib</b> | <b>27.7</b> | <b>30.6</b> | <b>32.6</b> | <b>34.2</b> | <b>35.0</b> | <b>35.6</b> | <b>35.8</b> | <b>37.2</b> | <b>38.2</b> | <b>38.7</b> |
| Anguilla                 | 4.1         | 4.1         | 7.7         | 7.7         | 4.7         | 6.1         | 6.1         | 6.1         | 6.1         | 6.1         |
| Antigua Barb             | 0.3         | 2.8         | 4.2         | 5.1         | 10.7        | 9.8         | 14.6        | 19.2        | 19.2        | 13.1        |
| Aruba                    | 12.8        | 13.2        | 13.5        | 13.5        | 15.3        | 14.8        | 14.8        | 14.8        | 17.2        | 17.2        |
| Bahamas                  | 0.4         | 0.5         | 0.5         | 0.5         | 0.5         | 0.6         | 0.6         | 1.1         | 1.6         | 1.6         |
| Barbados                 | 0.6         | 1.2         | 5.4         | 5.9         | 6.1         | 11.2        | 15.7        | 19.5        | 19.2        | 19.2        |
| Belize                   | 46.1        | 46.1        | 46.1        | 48.4        | 48.5        | 50.0        | 50.0        | 50.0        | 50.0        | 50.0        |
| BES Islands              | 29.2        | 29.7        | 32.5        | 36.0        | 37.6        | 39.0        | 32.5        | 32.5        | 32.5        | 33.9        |
| Br Virgin Is             | 1.2         | 2.7         | 3.0         | 2.2         | 2.2         | 2.8         | 3.1         | 3.5         | 3.5         | 5.0         |
| Cayman Is                | 0.0         | 0.0         | 1.6         | 4.8         | 5.8         | 6.4         | 7.2         | 7.7         | 7.5         | 7.5         |
| Costa Rica               | 79.4        | 80.7        | 83.6        | 83.9        | 84.4        | 86.9        | 86.8        | 88.2        | 89.2        | 89.4        |
| Cuba                     | 8.0         | 8.5         | 8.0         | 9.2         | 10.0        | 9.2         | 11.6        | 11.9        | 12.6        | 12.0        |
| Curacao                  | 19.9        | 17.7        | 18.0        | 25.9        | 26.1        | 22.2        | 22.6        | 22.6        | 22.6        | 22.7        |
| Dominica                 | 26.1        | 26.1        | 27.2        | 27.2        | 26.3        | 26.3        | 25.0        | 25.0        | 27.6        | 27.6        |
| Dominican Rep            | 17.5        | 18.0        | 20.9        | 22.5        | 23.1        | 25.8        | 26.4        | 28.3        | 31.2        | 33.9        |
| El Salvador              | 52.3        | 54.7        | 56.2        | 60.3        | 62.3        | 65.9        | 67.4        | 68.5        | 59.7        | 60.3        |
| Grenada                  | 1.5         | 2.1         | 4.2         | 4.3         | 4.8         | 5.8         | 6.6         | 6.3         | 6.3         | 6.4         |
| Guadeloupe               | 28.6        | 26.2        | 26.3        | 28.0        | 30.3        | 32.2        | 37.2        | 38.5        | 39.3        | 39.3        |
| Guatemala                | 57.7        | 58.4        | 61.8        | 65.9        | 69.5        | 69.8        | 69.7        | 70.6        | 70.7        | 70.7        |
| Haiti                    | 12.7        | 12.7        | 12.8        | 12.9        | 16.8        | 16.8        | 16.8        | 16.8        | 16.9        | 17.0        |
| Honduras                 | 48.2        | 59.5        | 59.9        | 61.3        | 61.9        | 62.8        | 64.5        | 64.7        | 63.7        | 63.6        |
| Jamaica                  | 11.1        | 11.0        | 15.9        | 17.8        | 17.5        | 18.1        | 16.4        | 16.3        | 16.3        | 16.4        |
| Martinique               | 13.4        | 14.0        | 14.3        | 14.6        | 21.4        | 24.4        | 24.7        | 25.2        | 26.1        | 26.9        |
| Montserrat               | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 3.5         | 3.5         | 12.6        | 12.6        | 12.8        |
| Nicaragua                | 44.8        | 45.6        | 47.4        | 45.5        | 45.5        | 45.2        | 45.2        | 45.4        | 45.8        | 45.9        |
| Panama                   | 59.5        | 66.1        | 62.3        | 62.2        | 58.8        | 59.7        | 56.4        | 65.1        | 67.6        | 66.7        |
| Puerto Rico              | 5.0         | 7.2         | 7.8         | 8.7         | 8.8         | 9.0         | 9.7         | 11.3        | 13.3        | 17.1        |
| St Barth                 | 0.0         | 0.0         | 0.1         | 0.1         | 0.1         | 0.1         | 0.1         | 0.1         | 0.2         | 0.2         |
| St Kitts Nevis           | 5.2         | 5.2         | 5.8         | 5.5         | 5.6         | 5.6         | 6.9         | 6.9         | 6.6         | 6.6         |
| St Lucia                 | 0.1         | 0.9         | 1.2         | 1.2         | 4.4         | 4.6         | 4.7         | 4.7         | 4.7         | 4.8         |
| St Martin                | 5.0         | 7.9         | 3.1         | 0.2         | 0.2         | 0.9         | 1.7         | 1.7         | 3.2         | 3.6         |
| St Vincent Gren          | 12.4        | 15.1        | 15.2        | 17.0        | 19.2        | 22.6        | 18.2        | 18.1        | 17.6        | 18.3        |
| Trinidad Tobago          | 0.2         | 0.2         | 0.2         | 0.2         | 0.2         | 0.2         | 0.2         | 0.2         | 0.2         | 0.2         |
| Turks Caicos             | 0.0         | 0.0         | 0.0         | 0.2         | 0.5         | 1.0         | 1.0         | 2.8         | 3.5         | 3.7         |
| US Virgin Is             | 1.6         | 2.8         | 2.9         | 2.1         | 3.0         | 3.0         | 3.0         | 3.0         | 3.0         | 3.0         |
| <b>Eurasia</b>           | <b>24.6</b> | <b>26.0</b> | <b>25.5</b> | <b>26.2</b> | <b>27.0</b> | <b>27.5</b> | <b>28.7</b> | <b>29.7</b> | <b>30.1</b> | <b>30.8</b> |
| Armenia                  | 31.7        | 36.5        | 36.9        | 37.2        | 37.8        | 37.9        | 38.5        | 37.1        | 38.5        | 44.1        |
| Azerbaijan               | 15.2        | 14.8        | 15.0        | 15.0        | 16.3        | 16.9        | 17.0        | 16.5        | 16.6        | 20.3        |
| Georgia                  | 79.3        | 75.2        | 77.5        | 77.2        | 77.8        | 78.2        | 73.8        | 74.1        | 74.2        | 74.8        |
| Russian Fed              | 19.8        | 20.5        | 19.5        | 19.5        | 19.7        | 19.7        | 20.2        | 20.6        | 20.7        | 20.7        |
| Türkiye                  | 40.2        | 43.1        | 43.9        | 45.5        | 47.7        | 48.6        | 51.3        | 53.3        | 53.9        | 55.0        |

# Renewable energy share of electricity capacity

## Part d'énergie renouvelable dans la puissance installée

## Porcentaje de energía renovable en la capacidad instalada

| CAP (%MW)             | 2014        | 2015        | 2016        | 2017        | 2018        | 2019        | 2020        | 2021        | 2022        | 2023        |
|-----------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| <b>Europe</b>         | <b>39.3</b> | <b>41.3</b> | <b>42.9</b> | <b>44.5</b> | <b>45.5</b> | <b>47.9</b> | <b>49.8</b> | <b>51.9</b> | <b>54.4</b> | <b>56.9</b> |
| Albania               | 94.6        | 94.8        | 95.1        | 95.4        | 95.6        | 95.7        | 96.1        | 96.3        | 96.4        | 96.6        |
| Andorra               | 100.0       | 100.0       | 96.2        | 96.8        | 96.8        | 96.9        | 97.0        | 97.0        | 97.0        | 97.0        |
| Austria               | 73.4        | 74.7        | 76.7        | 78.6        | 79.5        | 80.2        | 80.3        | 80.7        | 83.3        | 85.0        |
| Belarus               | 0.8         | 1.0         | 2.2         | 2.9         | 3.8         | 4.1         | 4.8         | 4.3         | 5.5         | 5.5         |
| Belgium               | 28.6        | 30.1        | 31.3        | 33.6        | 36.5        | 39.8        | 43.9        | 45.3        | 49.1        | 54.6        |
| Bosnia Herzg          | 43.0        | 43.1        | 40.8        | 40.6        | 41.6        | 42.2        | 42.5        | 43.5        | 44.1        | 44.4        |
| Bulgaria              | 36.2        | 37.9        | 38.6        | 39.5        | 38.1        | 38.5        | 39.7        | 40.4        | 42.3        | 47.6        |
| Croatia               | 58.5        | 56.9        | 57.6        | 58.7        | 59.5        | 65.1        | 69.8        | 71.6        | 72.1        | 72.5        |
| Cyprus                | 12.8        | 13.9        | 14.3        | 15.5        | 16.1        | 17.7        | 21.1        | 24.5        | 28.5        | 34.3        |
| Czechia               | 19.0        | 19.3        | 19.2        | 19.2        | 19.2        | 19.9        | 20.7        | 21.6        | 22.4        | 22.7        |
| Denmark               | 49.5        | 50.8        | 52.1        | 57.2        | 59.4        | 61.3        | 63.8        | 67.2        | 69.1        | 70.6        |
| Estonia               | 18.5        | 20.7        | 23.6        | 24.2        | 21.6        | 26.1        | 30.3        | 42.0        | 44.8        | 53.9        |
| Faroe Islands         | 48.0        | 46.4        | 46.3        | 46.3        | 44.8        | 40.4        | 36.0        | 35.9        | 35.9        | 35.9        |
| Finland               | 35.3        | 36.8        | 41.2        | 43.6        | 44.0        | 45.0        | 50.2        | 52.6        | 60.9        | 59.5        |
| France                | 31.3        | 32.5        | 33.8        | 36.1        | 37.5        | 39.3        | 40.8        | 42.4        | 44.2        | 45.2        |
| Germany               | 45.7        | 48.1        | 50.2        | 52.3        | 52.0        | 54.0        | 56.3        | 57.3        | 59.6        | 63.3        |
| Greece                | 42.4        | 43.0        | 44.0        | 44.7        | 46.1        | 48.5        | 52.5        | 56.8        | 57.1        | 60.6        |
| Hungary               | 11.8        | 12.5        | 12.0        | 13.8        | 17.5        | 22.9        | 28.2        | 33.7        | 40.5        | 47.1        |
| Iceland               | 95.9        | 95.8        | 95.8        | 95.9        | 96.1        | 96.1        | 95.8        | 95.8        | 95.8        | 95.8        |
| Ireland               | 28.0        | 28.5        | 31.1        | 34.7        | 36.9        | 40.9        | 42.5        | 43.7        | 45.5        | 48.8        |
| Italy                 | 40.7        | 43.1        | 44.8        | 45.6        | 46.1        | 46.7        | 47.7        | 48.5        | 49.4        | 51.4        |
| Kosovo*               | 4.6         | 4.6         | 8.2         | 8.6         | 8.6         | 9.7         | 10.7        | 10.9        | 13.0        | 17.2        |
| Latvia                | 60.8        | 60.8        | 60.7        | 61.1        | 61.4        | 62.1        | 62.0        | 62.0        | 63.9        | 67.7        |
| Lithuania             | 13.5        | 19.3        | 20.9        | 23.7        | 24.9        | 25.4        | 26.8        | 31.2        | 40.8        | 52.5        |
| Luxembourg            | 11.1        | 11.8        | 17.6        | 18.6        | 18.9        | 21.7        | 23.8        | 26.8        | 29.2        | 36.0        |
| Malta                 | 8.5         | 11.7        | 17.1        | 16.5        | 18.8        | 21.3        | 24.6        | 26.3        | 31.2        | 32.0        |
| Moldova Rep           | 2.3         | 2.3         | 2.3         | 2.7         | 3.5         | 3.6         | 3.8         | 4.9         | 8.0         | 9.5         |
| Montenegro            | 74.4        | 74.6        | 74.8        | 76.8        | 76.9        | 77.9        | 78.4        | 78.4        | 78.8        | 79.2        |
| Netherlands           | 14.7        | 18.2        | 21.7        | 24.1        | 28.3        | 34.1        | 43.4        | 49.1        | 54.4        | 59.1        |
| North Macedonia       | 38.8        | 40.0        | 39.5        | 39.8        | 40.0        | 40.2        | 42.6        | 38.7        | 42.5        | 50.8        |
| Norway                | 95.7        | 95.7        | 97.0        | 97.0        | 97.1        | 97.2        | 97.6        | 97.8        | 98.2        | 98.2        |
| Poland                | 15.7        | 18.5        | 20.7        | 18.6        | 19.3        | 21.5        | 24.9        | 31.1        | 40.3        | 44.2        |
| Portugal              | 60.5        | 61.9        | 64.1        | 64.7        | 64.9        | 65.4        | 65.6        | 70.6        | 75.7        | 77.6        |
| Romania               | 46.9        | 47.3        | 47.6        | 47.5        | 47.6        | 53.7        | 54.3        | 59.5        | 60.2        | 62.2        |
| Serbia                | 33.4        | 33.4        | 33.7        | 33.5        | 35.3        | 36.9        | 37.0        | 37.2        | 36.0        | 36.8        |
| Slovakia              | 29.4        | 30.6        | 31.0        | 31.1        | 30.5        | 31.5        | 30.8        | 32.1        | 32.6        | 33.3        |
| Slovenia              | 40.7        | 42.3        | 39.8        | 40.9        | 38.8        | 39.5        | 41.0        | 41.8        | 44.0        | 47.8        |
| Spain                 | 44.1        | 44.7        | 45.1        | 46.2        | 46.5        | 49.8        | 52.9        | 55.9        | 60.3        | 62.2        |
| Sweden                | 65.9        | 67.7        | 69.0        | 70.8        | 70.8        | 72.8        | 71.8        | 75.8        | 77.4        | 78.7        |
| Switzerland           | 76.4        | 76.7        | 78.0        | 78.9        | 79.2        | 79.5        | 79.9        | 81.7        | 82.3        | 83.4        |
| UK                    | 25.8        | 32.0        | 36.3        | 38.8        | 41.3        | 45.3        | 46.3        | 47.9        | 49.6        | 51.7        |
| Ukraine               | 10.7        | 10.8        | 10.7        | 12.2        | 14.2        | 21.7        | 23.8        | 25.2        | 25.2        | 24.8        |
| <b>European Union</b> | <b>40.0</b> | <b>41.7</b> | <b>43.3</b> | <b>44.6</b> | <b>45.4</b> | <b>47.5</b> | <b>49.6</b> | <b>51.9</b> | <b>54.9</b> | <b>57.7</b> |
| <b>Middle East</b>    | <b>5.9</b>  | <b>5.6</b>  | <b>5.7</b>  | <b>5.7</b>  | <b>6.2</b>  | <b>6.9</b>  | <b>7.3</b>  | <b>7.8</b>  | <b>8.9</b>  | <b>9.9</b>  |
| Bahrain               | 0.1         | 0.1         | 0.1         | 0.1         | 0.1         | 0.1         | 0.1         | 0.2         | 0.5         | 0.6         |
| Iran IR               | 14.9        | 14.0        | 14.1        | 14.4        | 14.3        | 14.3        | 14.0        | 13.8        | 13.8        | 13.5        |
| Iraq                  | 9.0         | 7.4         | 7.2         | 6.1         | 5.9         | 5.9         | 5.5         | 5.3         | 5.1         | 5.0         |
| Israel                | 4.2         | 4.8         | 5.5         | 6.0         | 7.8         | 11.3        | 13.4        | 17.0        | 20.4        | 20.5        |
| Jordan                | 0.4         | 4.6         | 12.0        | 14.7        | 20.2        | 24.5        | 34.3        | 38.2        | 38.1        | 37.1        |
| Kuwait                | 0.0         | 0.0         | 0.1         | 0.1         | 0.2         | 0.5         | 0.5         | 0.5         | 0.6         | 0.6         |
| Lebanon               | 8.2         | 8.1         | 8.6         | 8.8         | 9.3         | 9.8         | 10.1        | 14.1        | 29.6        | 31.8        |
| Oman                  | 0.0         | 0.0         | 0.0         | 0.1         | 0.3         | 0.7         | 1.5         | 1.7         | 6.1         | 6.2         |
| Palestine             | 2.1         | 7.0         | 13.5        | 18.1        | 20.1        | 33.9        | 42.4        | 52.7        | 54.6        | 90.6        |
| Qatar                 | 0.3         | 0.3         | 0.3         | 0.2         | 0.2         | 0.2         | 0.2         | 0.2         | 7.2         | 7.2         |
| Saudi Arabia          | 0.0         | 0.0         | 0.0         | 0.0         | 0.1         | 0.1         | 0.5         | 0.5         | 1.0         | 3.3         |
| Syrian AR             | 15.4        | 16.5        | 16.0        | 15.4        | 14.9        | 14.9        | 14.9        | 15.1        | 15.3        | 15.3        |
| United Arab Em        | 0.5         | 0.5         | 0.5         | 1.1         | 1.9         | 5.8         | 6.6         | 8.3         | 9.3         | 13.8        |
| Yemen                 | 0.4         | 3.8         | 5.0         | 6.4         | 14.3        | 13.6        | 13.6        | 12.9        | 13.1        | 14.3        |
| <b>N America</b>      | <b>22.5</b> | <b>24.1</b> | <b>25.5</b> | <b>26.4</b> | <b>27.2</b> | <b>28.7</b> | <b>30.6</b> | <b>32.3</b> | <b>33.7</b> | <b>35.2</b> |
| Canada                | 66.4        | 67.2        | 67.4        | 67.8        | 68.3        | 68.4        | 68.1        | 68.4        | 69.8        | 69.8        |
| Greenland             | 48.8        | 48.8        | 48.8        | 48.8        | 48.8        | 48.9        | 48.9        | 49.0        | 49.1        | 49.1        |
| Mexico                | 25.1        | 25.7        | 26.1        | 26.3        | 24.4        | 28.9        | 30.1        | 31.1        | 27.3        | 28.1        |
| St Pierre Mq          | 2.2         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         |
| USA                   | 16.8        | 18.2        | 19.9        | 21.0        | 22.0        | 23.5        | 25.7        | 27.8        | 29.7        | 31.5        |

**Renewable energy share of electricity capacity**  
**Part d'énergie renouvelable dans la puissance installée**  
**Porcentaje de energía renovable en la capacidad instalada**

| CAP (%MW)        | 2014        | 2015        | 2016        | 2017        | 2018        | 2019        | 2020        | 2021        | 2022        | 2023        |
|------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| <b>Oceania</b>   | <b>30.2</b> | <b>29.7</b> | <b>31.6</b> | <b>34.3</b> | <b>37.9</b> | <b>41.7</b> | <b>44.9</b> | <b>47.4</b> | <b>50.2</b> | <b>53.3</b> |
| Amer Samoa       | 6.6         | 6.6         | 10.6        | 9.7         | 11.5        | 10.8        | 10.8        | 10.8        | 9.3         | 9.3         |
| Australia        | 24.2        | 24.0        | 25.9        | 29.1        | 33.6        | 38.3        | 42.2        | 45.0        | 48.1        | 51.5        |
| Cook Is          | 11.6        | 17.6        | 14.1        | 14.1        | 20.8        | 23.3        | 23.3        | 23.3        | 23.3        | 23.3        |
| Fiji             | 61.3        | 56.5        | 56.8        | 58.5        | 58.5        | 55.7        | 55.7        | 56.6        | 56.7        | 56.8        |
| Fr Polynesia     | 25.8        | 26.8        | 27.4        | 28.2        | 29.0        | 30.0        | 30.8        | 30.4        | 31.9        | 32.1        |
| Guam             | 0.3         | 6.1         | 7.4         | 6.9         | 7.3         | 8.7         | 9.0         | 9.3         | 20.0        | 20.0        |
| Kiribati         | 10.5        | 26.2        | 30.6        | 30.6        | 32.9        | 32.9        | 32.9        | 32.9        | 32.9        | 32.9        |
| Marshall Is      | 3.5         | 3.5         | 5.4         | 5.5         | 5.6         | 5.6         | 5.6         | 5.6         | 5.8         | 6.0         |
| Micronesia       | 5.7         | 6.7         | 7.7         | 7.1         | 9.8         | 10.3        | 10.3        | 10.3        | 10.3        | 10.3        |
| Nauru            | 1.8         | 1.8         | 5.7         | 4.1         | 4.7         | 9.3         | 9.3         | 10.9        | 11.8        | 11.8        |
| New Caledon      | 12.9        | 13.1        | 13.4        | 15.0        | 16.0        | 19.0        | 20.9        | 24.6        | 23.9        | 24.2        |
| New Zealand      | 73.2        | 76.2        | 77.6        | 77.7        | 77.8        | 77.8        | 77.1        | 77.7        | 80.4        | 80.7        |
| Niue             | 14.1        | 14.1        | 14.1        | 14.1        | 14.1        | 31.1        | 31.1        | 31.1        | 31.1        | 31.1        |
| Palau            | 3.4         | 3.4         | 6.2         | 6.2         | 7.4         | 8.2         | 8.8         | 12.6        | 12.6        | 39.4        |
| Papua N Guin     | 34.5        | 34.8        | 34.7        | 33.7        | 33.7        | 33.4        | 32.0        | 32.0        | 32.2        | 36.1        |
| Samoa            | 23.8        | 26.9        | 33.2        | 36.5        | 36.8        | 37.9        | 38.5        | 38.5        | 38.5        | 38.5        |
| Solomon Is       | 4.0         | 4.8         | 6.4         | 6.7         | 6.6         | 6.4         | 6.4         | 6.4         | 9.2         | 9.7         |
| Tokelau          | 86.8        | 86.8        | 87.8        | 87.8        | 87.8        | 88.0        | 88.0        | 88.0        | 88.0        | 88.0        |
| Tonga            | 15.0        | 19.6        | 22.9        | 30.4        | 31.3        | 35.3        | 35.3        | 31.7        | 47.3        | 48.4        |
| Tuvalu           | 6.1         | 40.7        | 53.7        | 53.8        | 53.8        | 53.8        | 54.3        | 54.3        | 54.3        | 55.0        |
| Vanuatu          | 25.7        | 25.9        | 28.8        | 30.0        | 35.5        | 34.7        | 34.1        | 34.1        | 33.7        | 34.5        |
| <b>S America</b> | <b>63.1</b> | <b>64.3</b> | <b>65.1</b> | <b>65.6</b> | <b>66.3</b> | <b>67.2</b> | <b>67.5</b> | <b>68.3</b> | <b>69.9</b> | <b>71.4</b> |
| Argentina        | 28.6        | 30.9        | 30.7        | 29.1        | 29.3        | 31.2        | 32.9        | 34.5        | 34.7        | 35.3        |
| Bolivia          | 27.6        | 27.8        | 29.9        | 31.6        | 35.5        | 35.7        | 30.5        | 31.5        | 41.2        | 32.6        |
| Brazil           | 79.4        | 79.9        | 80.7        | 81.3        | 83.2        | 83.3        | 83.0        | 83.4        | 84.4        | 85.7        |
| Chile            | 42.8        | 42.6        | 41.6        | 44.6        | 47.1        | 47.9        | 51.9        | 54.5        | 59.2        | 63.9        |
| Colombia         | 70.5        | 70.0        | 70.0        | 70.2        | 68.7        | 68.6        | 68.9        | 67.9        | 68.6        | 69.5        |
| Ecuador          | 42.6        | 43.3        | 56.4        | 58.6        | 60.8        | 60.8        | 60.8        | 60.3        | 61.1        | 61.2        |
| Falklands Malv   | 30.3        | 30.8        | 30.8        | 30.8        | 30.8        | 30.8        | 19.9        | 19.9        | 19.9        | 19.9        |
| Fr Guiana        | 49.5        | 49.7        | 47.5        | 47.5        | 47.5        | 48.3        | 46.7        | 46.7        | 46.7        | 46.7        |
| Guyana           | 15.5        | 16.7        | 15.0        | 14.6        | 14.7        | 14.7        | 14.6        | 13.0        | 13.4        | 14.3        |
| Paraguay         | 99.8        | 99.8        | 100.0       | 100.0       | 100.0       | 99.7        | 99.7        | 99.7        | 99.7        | 99.7        |
| Peru             | 37.6        | 39.7        | 40.5        | 40.9        | 41.7        | 42.7        | 42.8        | 43.0        | 42.5        | 43.1        |
| South Georgia    | 58.9        | 58.9        | 58.9        | 58.9        | 58.9        | 58.9        | 58.9        | 58.9        | 58.9        | 60.5        |
| Suriname         | 51.0        | 49.0        | 49.0        | 42.3        | 42.4        | 41.6        | 41.7        | 38.4        | 32.7        | 32.7        |
| Uruguay          | 65.7        | 72.4        | 83.5        | 81.8        | 75.8        | 76.0        | 76.0        | 76.1        | 76.1        | 77.6        |
| Venezuela        | 47.6        | 47.4        | 48.8        | 48.6        | 46.4        | 47.6        | 47.6        | 47.8        | 47.8        | 47.5        |

# Renewable energy share of electricity production

## Part d'énergie renouvelable dans la production d'électricité

## Porcentaje de energía renovable en la generación eléctrica

| PROD (%GWh)   | 2014        | 2015        | 2016        | 2017        | 2018        | 2019        | 2020        | 2021        | 2022        |
|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| <b>World</b>  | <b>22.2</b> | <b>22.7</b> | <b>23.5</b> | <b>24.3</b> | <b>24.9</b> | <b>25.9</b> | <b>27.6</b> | <b>27.7</b> | <b>29.1</b> |
| <b>Africa</b> | <b>18.1</b> | <b>18.0</b> | <b>18.2</b> | <b>18.7</b> | <b>19.8</b> | <b>20.6</b> | <b>22.5</b> | <b>23.1</b> | <b>22.8</b> |
| Algeria       | 0.6         | 0.5         | 0.7         | 0.7         | 1.1         | 1.1         | 1.1         | 1.0         | 0.9         |
| Angola        | 47.7        | 46.3        | 52.6        | 64.4        | 72.3        | 72.9        | 80.5        | 74.0        | 76.3        |
| Benin         | 0.3         | 1.2         | 1.3         | 1.2         | 1.3         | 0.4         | 0.5         | 0.6         | 0.8         |
| Botswana      | 0.1         | 0.1         | 0.2         | 0.2         | 0.2         | 0.2         | 0.3         | 0.2         | 0.2         |
| Burkina Faso  | 10.7        | 9.8         | 14.8        | 13.1        | 16.9        | 25.2        | 27.9        | 24.4        | 23.8        |
| Burundi       | 85.6        | 86.3        | 88.4        | 84.2        | 82.3        | 77.4        | 70.3        | 60.1        | 50.3        |
| Cabo Verde    | 22.2        | 20.3        | 18.6        | 17.6        | 20.8        | 18.7        | 16.8        | 18.3        | 27.2        |
| Cameroon      | 79.5        | 71.0        | 74.5        | 74.6        | 72.4        | 75.9        | 76.7        | 76.8        | 76.8        |
| Cent Afr Rep  | 99.8        | 99.7        | 95.6        | 96.5        | 96.5        | 96.5        | 96.5        | 96.5        | 96.5        |
| Chad          | 7.0         | 2.8         | 5.3         | 5.2         | 5.2         | 4.8         | 5.3         | 5.7         | 5.8         |
| Comoros       | 8.7         | 0.0         | 2.2         | 3.2         | 3.2         | 3.2         | 3.2         | 1.0         | 0.1         |
| Congo DR      | 99.9        | 98.2        | 99.3        | 99.1        | 98.9        | 99.1        | 99.9        | 100.0       | 100.0       |
| Congo Rep     | 48.4        | 44.0        | 41.4        | 42.8        | 40.7        | 40.7        | 40.7        | 40.7        | 40.7        |
| Cote d'Ivoire | 23.4        | 15.9        | 15.2        | 20.6        | 29.6        | 24.7        | 23.2        | 18.7        | 19.1        |
| Djibouti      | 0.5         | 0.3         | 0.7         | 1.0         | 1.1         | 0.7         | 0.5         | 35.9        | 35.7        |
| Egypt         | 8.4         | 8.3         | 8.6         | 8.4         | 8.1         | 9.0         | 12.1        | 12.3        | 12.2        |
| Eq Guinea     | 14.3        | 14.3        | 13.1        | 12.1        | 12.0        | 12.0        | 12.0        | 12.0        | 11.9        |
| Eritrea       | 5.9         | 6.1         | 6.7         | 12.4        | 13.0        | 12.7        | 12.4        | 11.8        | 11.6        |
| Eswatini      | 98.6        | 98.5        | 98.1        | 97.9        | 98.3        | 98.4        | 98.5        | 98.6        | 98.7        |
| Ethiopia      | 100.0       | 100.0       | 100.0       | 100.0       | 100.0       | 100.0       | 100.0       | 100.0       | 100.0       |
| Gabon         | 44.8        | 48.2        | 41.6        | 48.9        | 53.9        | 53.9        | 53.9        | 54.0        | 53.9        |
| Gambia        | 1.1         | 1.0         | 1.2         | 1.3         | 1.1         | 1.1         | 1.0         | 1.0         | 0.8         |
| Ghana         | 64.8        | 51.0        | 43.0        | 41.2        | 37.4        | 40.7        | 36.5        | 34.6        | 35.9        |
| Guinea        | 60.3        | 78.9        | 67.9        | 69.3        | 63.3        | 63.9        | 61.9        | 88.1        | 90.6        |
| Guinea Bissau | 0.0         | 1.2         | 4.4         | 5.8         | 10.6        | 10.6        | 10.3        | 11.8        | 10.5        |
| Kenya         | 75.3        | 83.4        | 82.5        | 79.3        | 83.7        | 89.6        | 91.5        | 88.2        | 85.8        |
| Lesotho       | 99.9        | 99.9        | 99.9        | 99.9        | 99.9        | 99.9        | 99.9        | 99.5        | 99.8        |
| Liberia       | 7.9         | 7.6         | 8.0         | 27.0        | 32.0        | 31.1        | 29.4        | 34.7        | 34.8        |
| Libya         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         |
| Madagascar    | 58.0        | 61.4        | 54.6        | 47.2        | 55.6        | 49.6        | 46.7        | 42.4        | 45.8        |
| Malawi        | 98.8        | 99.1        | 96.8        | 84.3        | 79.8        | 78.1        | 78.2        | 79.0        | 79.0        |
| Mali          | 68.7        | 65.3        | 63.9        | 60.7        | 60.7        | 60.3        | 61.1        | 61.5        | 61.0        |
| Mauritania    | 5.1         | 13.4        | 15.7        | 13.9        | 19.8        | 18.7        | 19.0        | 20.4        | 16.4        |
| Mauritius     | 20.3        | 22.8        | 21.9        | 20.2        | 20.9        | 21.9        | 24.1        | 21.6        | 19.3        |
| Mayotte       | 5.0         | 4.7         | 4.6         | 5.1         | 5.0         | 7.1         | 7.8         | 12.1        | 12.1        |
| Morocco       | 12.9        | 14.9        | 15.3        | 14.8        | 19.0        | 18.9        | 18.2        | 18.9        | 17.4        |
| Mozambique    | 99.8        | 99.7        | 95.8        | 81.0        | 82.3        | 81.9        | 83.7        | 83.1        | 84.1        |
| Namibia       | 92.1        | 90.4        | 89.9        | 91.3        | 90.8        | 90.8        | 91.3        | 90.6        | 92.1        |
| Niger         | 1.9         | 1.7         | 1.8         | 1.8         | 2.5         | 3.8         | 3.8         | 3.8         | 3.8         |
| Nigeria       | 19.8        | 20.1        | 28.5        | 24.6        | 23.0        | 25.3        | 22.6        | 25.3        | 27.2        |
| Reunion       | 33.0        | 36.1        | 34.1        | 32.4        | 36.4        | 31.2        | 24.6        | 28.2        | 34.2        |
| Rwanda        | 53.4        | 60.7        | 48.9        | 47.9        | 47.9        | 51.7        | 60.5        | 58.2        | 52.8        |
| Sao Tome Prn  | 9.4         | 6.5         | 5.6         | 4.9         | 5.6         | 5.7         | 5.8         | 6.1         | 5.9         |
| Senegal       | 1.6         | 2.0         | 2.0         | 4.5         | 8.0         | 8.8         | 12.5        | 20.7        | 16.5        |
| Seychelles    | 2.2         | 2.2         | 2.5         | 2.7         | 3.1         | 2.6         | 3.3         | 5.5         | 5.7         |
| Sierra Leone  | 82.5        | 74.7        | 74.3        | 73.8        | 73.4        | 94.9        | 97.3        | 95.8        | 95.8        |
| Somalia       | 1.2         | 1.5         | 1.9         | 2.4         | 2.6         | 2.7         | 6.3         | 9.5         | 17.5        |
| South Africa  | 1.0         | 1.7         | 2.1         | 2.9         | 3.5         | 3.7         | 4.5         | 5.2         | 5.4         |
| South Sudan   | 0.0         | 0.0         | 0.1         | 0.1         | 0.2         | 0.2         | 0.5         | 0.8         | 0.8         |
| Sudan         | 78.6        | 64.9        | 56.2        | 61.7        | 60.9        | 61.4        | 67.3        | 60.8        | 61.0        |
| Tanzania      | 49.5        | 35.4        | 36.3        | 36.1        | 33.5        | 34.7        | 42.8        | 39.2        | 33.8        |
| Togo          | 62.1        | 14.8        | 23.6        | 32.2        | 22.6        | 23.7        | 14.9        | 20.7        | 14.5        |
| Tunisia       | 3.1         | 2.9         | 3.0         | 2.9         | 3.1         | 3.7         | 4.0         | 4.3         | 4.1         |
| Uganda        | 97.4        | 97.5        | 98.2        | 93.9        | 94.4        | 97.7        | 98.7        | 97.9        | 99.7        |
| Zambia        | 97.2        | 97.0        | 94.3        | 86.4        | 84.7        | 82.9        | 85.5        | 92.1        | 88.9        |
| Zimbabwe      | 56.5        | 55.1        | 42.5        | 53.1        | 61.7        | 61.2        | 62.1        | 71.1        | 50.2        |

# Renewable energy share of electricity production

## Part d'énergie renouvelable dans la production d'électricité

## Porcentaje de energía renovable en la generación eléctrica

| PROD (%GWh)              | 2014        | 2015        | 2016        | 2017        | 2018        | 2019        | 2020        | 2021        | 2022        |
|--------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| <b>Asia</b>              | <b>18.9</b> | <b>19.7</b> | <b>20.4</b> | <b>21.2</b> | <b>21.7</b> | <b>22.6</b> | <b>24.0</b> | <b>24.7</b> | <b>26.2</b> |
| Afghanistan              | 85.5        | 87.6        | 87.7        | 86.9        | 82.7        | 87.8        | 87.4        | 78.3        | 78.0        |
| Bangladesh               | 1.7         | 2.0         | 2.0         | 2.0         | 1.7         | 1.5         | 1.5         | 1.5         | 1.7         |
| Bhutan                   | 100.0       | 100.0       | 100.0       | 100.0       | 100.0       | 100.0       | 100.0       | 100.0       | 100.0       |
| Brunei Darussalam        | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         |
| Cambodia                 | 62.0        | 49.9        | 48.4        | 42.5        | 59.4        | 49.0        | 49.6        | 59.1        | 65.8        |
| China                    | 22.5        | 23.8        | 24.8        | 25.0        | 25.3        | 26.5        | 27.6        | 28.2        | 29.7        |
| China HK SAR             | 0.2         | 0.2         | 0.3         | 0.3         | 0.3         | 0.3         | 0.4         | 0.7         | 0.9         |
| Chinese Taipei           | 3.2         | 3.4         | 4.2         | 4.0         | 3.9         | 4.9         | 4.8         | 5.4         | 7.6         |
| India                    | 16.6        | 15.2        | 14.0        | 14.6        | 15.7        | 17.0        | 18.5        | 18.9        | 19.5        |
| Indonesia                | 14.5        | 13.8        | 15.4        | 16.3        | 17.0        | 16.1        | 18.0        | 18.1        | 19.6        |
| Japan                    | 12.0        | 13.8        | 14.1        | 15.5        | 16.4        | 17.8        | 19.4        | 20.1        | 21.5        |
| Kazakhstan               | 8.7         | 10.3        | 12.7        | 11.3        | 10.3        | 10.6        | 12.5        | 11.0        | 11.7        |
| Korea DPR                | 61.4        | 52.7        | 53.6        | 50.7        | 51.5        | 46.4        | 53.5        | 63.3        | 63.1        |
| Korea Rep                | 1.6         | 1.9         | 2.8         | 3.3         | 3.9         | 4.8         | 5.9         | 6.2         | 7.4         |
| Kyrgyzstan               | 91.4        | 85.2        | 87.6        | 91.9        | 91.0        | 91.7        | 90.7        | 85.6        | 85.9        |
| Lao PDR                  | 100.0       | 100.0       | 99.2        | 98.5        | 98.2        | 93.6        | 82.6        | 82.3        | 76.6        |
| Malaysia                 | 9.9         | 11.1        | 13.2        | 17.2        | 16.9        | 16.5        | 17.8        | 17.9        | 17.9        |
| Maldives                 | 1.4         | 1.5         | 2.2         | 2.8         | 3.9         | 4.4         | 5.6         | 5.8         | 5.5         |
| Mongolia                 | 3.8         | 4.0         | 4.4         | 4.4         | 7.2         | 5.0         | 4.8         | 5.4         | 4.9         |
| Myanmar                  | 66.4        | 62.1        | 60.4        | 60.9        | 61.2        | 51.6        | 43.5        | 46.4        | 48.5        |
| Nepal                    | 99.9        | 100.0       | 100.0       | 100.0       | 100.0       | 100.0       | 100.0       | 100.0       | 100.0       |
| Pakistan                 | 32.2        | 32.5        | 31.7        | 28.0        | 27.0        | 30.8        | 32.1        | 29.9        | 30.1        |
| Philippines              | 24.8        | 24.6        | 23.5        | 23.9        | 22.8        | 20.2        | 20.6        | 21.5        | 21.6        |
| Singapore                | 1.5         | 1.7         | 1.7         | 1.7         | 1.7         | 1.8         | 1.9         | 2.1         | 3.0         |
| Sri Lanka                | 39.4        | 48.7        | 32.9        | 31.0        | 43.8        | 33.8        | 35.6        | 49.4        | 50.3        |
| Tajikistan               | 98.1        | 98.0        | 96.3        | 94.4        | 93.2        | 92.8        | 92.8        | 92.8        | 92.8        |
| Thailand                 | 8.2         | 10.6        | 12.4        | 15.0        | 18.4        | 19.1        | 18.0        | 19.3        | 20.0        |
| Timor Leste              | 1.0         | 1.0         | 0.8         | 0.7         | 0.6         | 0.5         | 0.1         | 0.1         | 0.1         |
| Turkmenistan             | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         |
| Uzbekistan               | 16.0        | 16.0        | 13.9        | 13.5        | 10.1        | 11.2        | 9.5         | 7.7         | 9.3         |
| Viet Nam                 | 43.2        | 36.1        | 37.2        | 46.3        | 40.9        | 32.1        | 36.4        | 44.9        | 52.0        |
| <b>C America + Carib</b> | <b>26.6</b> | <b>27.8</b> | <b>29.0</b> | <b>33.5</b> | <b>33.6</b> | <b>31.2</b> | <b>35.7</b> | <b>37.9</b> | <b>38.4</b> |
| Anguilla                 | 1.0         | 1.6         | 2.4         | 2.3         | 2.0         | 2.5         | 3.5         | 3.5         | 3.5         |
| Antigua Barb             | 0.2         | 1.6         | 1.6         | 1.8         | 2.8         | 3.7         | 4.9         | 6.1         | 6.5         |
| Aruba                    | 17.6        | 18.9        | 15.7        | 14.7        | 14.7        | 15.0        | 14.8        | 14.8        | 15.9        |
| Bahamas                  | 0.5         | 0.5         | 0.5         | 0.6         | 0.6         | 0.6         | 0.8         | 1.0         | 1.2         |
| Barbados                 | 1.0         | 1.3         | 1.3         | 2.3         | 2.3         | 3.4         | 5.4         | 7.3         | 8.4         |
| Belize                   | 89.8        | 85.5        | 85.9        | 86.2        | 82.3        | 62.6        | 95.4        | 81.0        | 89.7        |
| BES Islands              | 34.3        | 31.6        | 31.1        | 25.9        | 33.0        | 28.4        | 22.7        | 24.1        | 23.0        |
| Br Virgin Is             | 0.8         | 0.8         | 1.4         | 1.7         | 1.9         | 2.0         | 2.0         | 2.2         | 2.3         |
| Cayman Is                | 0.0         | 0.0         | 0.3         | 1.3         | 2.1         | 2.4         | 2.8         | 3.0         | 3.0         |
| Costa Rica               | 89.7        | 99.0        | 98.2        | 99.7        | 98.6        | 99.2        | 99.8        | 100.0       | 99.3        |
| Cuba                     | 4.0         | 3.9         | 4.0         | 3.8         | 3.6         | 4.4         | 5.0         | 5.3         | 4.9         |
| Curacao                  | 20.1        | 16.0        | 14.1        | 19.7        | 27.9        | 26.7        | 24.2        | 24.1        | 22.4        |
| Dominica                 | 30.6        | 23.5        | 33.1        | 32.5        | 37.7        | 22.3        | 20.4        | 20.3        | 23.2        |
| Dominican Rep            | 9.5         | 7.7         | 10.9        | 16.2        | 15.6        | 12.7        | 15.9        | 17.2        | 17.8        |
| El Salvador              | 60.2        | 58.3        | 59.4        | 74.8        | 77.9        | 71.5        | 84.7        | 86.1        | 78.3        |
| Grenada                  | 0.6         | 0.8         | 1.2         | 1.5         | 1.5         | 1.6         | 2.0         | 2.0         | 1.7         |
| Guadeloupe               | 18.4        | 17.8        | 17.6        | 20.5        | 21.4        | 22.2        | 23.4        | 33.8        | 34.8        |
| Guatemala                | 68.3        | 61.9        | 62.9        | 71.4        | 65.1        | 62.8        | 76.9        | 73.3        | 79.1        |
| Haiti                    | 8.9         | 8.3         | 6.8         | 12.4        | 19.2        | 19.2        | 18.2        | 18.2        | 19.5        |
| Honduras                 | 42.2        | 45.4        | 47.7        | 56.4        | 62.1        | 53.4        | 55.2        | 61.4        | 59.5        |
| Jamaica                  | 7.1         | 6.9         | 8.3         | 11.7        | 12.4        | 12.1        | 13.1        | 12.8        | 12.0        |
| Martinique               | 6.2         | 6.2         | 6.2         | 5.8         | 11.6        | 24.7        | 23.3        | 25.3        | 26.5        |
| Montserrat               | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 3.2         | 11.9        | 11.9        |
| Nicaragua                | 54.0        | 50.1        | 52.2        | 56.0        | 58.9        | 56.9        | 69.9        | 69.3        | 65.7        |
| Panama                   | 56.4        | 68.7        | 67.7        | 71.4        | 77.2        | 56.5        | 75.6        | 81.7        | 80.1        |
| Puerto Rico              | 2.0         | 2.5         | 2.7         | 3.4         | 2.6         | 3.7         | 4.0         | 4.6         | 5.6         |
| St Barth                 | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.1         | 0.0         | 0.1         |
| St Kitts Nevis           | 4.7         | 4.5         | 4.6         | 3.7         | 3.6         | 3.5         | 4.4         | 4.5         | 4.4         |
| St Lucia                 | 0.0         | 0.3         | 0.5         | 0.5         | 1.7         | 2.1         | 2.2         | 2.0         | 2.0         |
| St Martin                | 1.3         | 2.1         | 1.4         | 0.1         | 0.0         | 0.3         | 0.7         | 0.8         | 0.9         |
| St Vincent Gren          | 8.6         | 12.1        | 10.9        | 14.1        | 16.6        | 15.2        | 16.8        | 15.0        | 15.0        |
| Trinidad Tobago          | 0.1         | 0.1         | 0.1         | 0.1         | 0.1         | 0.1         | 0.1         | 0.1         | 0.1         |
| Turks Caicos             | 0.0         | 0.0         | 0.0         | 0.1         | 0.3         | 0.6         | 0.6         | 1.5         | 1.9         |
| US Virgin Is             | 1.0         | 1.7         | 1.7         | 1.3         | 2.3         | 2.2         | 2.2         | 2.6         | 2.6         |
| <b>Eurasia</b>           | <b>16.9</b> | <b>18.4</b> | <b>19.6</b> | <b>19.1</b> | <b>20.9</b> | <b>23.3</b> | <b>24.8</b> | <b>24.0</b> | <b>23.5</b> |
| Armenia                  | 25.8        | 28.3        | 32.2        | 29.3        | 30.0        | 31.4        | 23.7        | 30.5        | 36.7        |
| Azerbaijan               | 6.0         | 7.4         | 8.8         | 8.1         | 8.1         | 7.3         | 5.5         | 5.8         | 6.7         |
| Georgia                  | 80.4        | 78.0        | 80.7        | 80.6        | 82.6        | 76.1        | 74.7        | 81.2        | 79.5        |
| Russian Fed              | 15.6        | 14.9        | 16.1        | 16.0        | 17.3        | 17.6        | 19.9        | 20.3        | 17.9        |
| Türkiye                  | 20.9        | 32.0        | 32.9        | 29.3        | 32.1        | 43.5        | 41.8        | 35.4        | 42.0        |

# Renewable energy share of electricity production

## Part d'énergie renouvelable dans la production d'électricité

## Porcentaje de energía renovable en la generación eléctrica

| PROD (%GWh)           | 2014        | 2015        | 2016        | 2017        | 2018        | 2019        | 2020        | 2021        | 2022        |
|-----------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| <b>Europe</b>         | <b>30.5</b> | <b>31.3</b> | <b>31.6</b> | <b>31.9</b> | <b>34.2</b> | <b>35.6</b> | <b>40.1</b> | <b>39.3</b> | <b>40.5</b> |
| Albania               | 100.0       | 100.0       | 100.0       | 100.0       | 100.0       | 100.0       | 100.0       | 100.0       | 100.0       |
| Andorra               | 100.0       | 100.0       | 99.1        | 96.0        | 96.4        | 96.6        | 97.4        | 93.3        | 94.1        |
| Austria               | 76.7        | 72.9        | 74.8        | 71.6        | 72.9        | 73.6        | 76.4        | 74.6        | 72.8        |
| Belarus               | 0.7         | 0.8         | 1.2         | 2.2         | 2.0         | 2.5         | 3.5         | 3.4         | 3.2         |
| Belgium               | 16.8        | 20.7        | 16.7        | 18.3        | 22.9        | 20.8        | 26.2        | 22.6        | 25.5        |
| Bosnia Herzg          | 34.9        | 33.7        | 31.6        | 23.2        | 34.2        | 36.5        | 29.0        | 38.8        | 32.0        |
| Bulgaria              | 15.6        | 17.8        | 15.6        | 13.4        | 20.0        | 16.9        | 18.3        | 21.7        | 19.1        |
| Croatia               | 73.3        | 65.9        | 65.2        | 59.4        | 71.8        | 65.4        | 63.9        | 69.2        | 62.9        |
| Cyprus                | 7.3         | 8.8         | 8.7         | 8.7         | 9.4         | 10.0        | 12.3        | 15.1        | 16.8        |
| Czechia               | 10.6        | 11.2        | 11.3        | 11.1        | 10.7        | 11.6        | 12.7        | 12.5        | 12.7        |
| Denmark               | 55.9        | 65.4        | 60.2        | 70.3        | 68.4        | 78.2        | 81.6        | 79.0        | 81.2        |
| Estonia               | 11.2        | 15.4        | 13.0        | 14.1        | 16.1        | 28.1        | 48.9        | 40.0        | 32.0        |
| Faroe Islands         | 50.8        | 60.1        | 49.9        | 51.1        | 48.8        | 40.4        | 38.7        | 38.1        | 52.2        |
| Finland               | 38.6        | 44.5        | 44.2        | 46.6        | 45.7        | 46.4        | 51.9        | 52.9        | 53.5        |
| France                | 16.4        | 15.8        | 17.6        | 16.5        | 19.5        | 19.8        | 23.5        | 22.0        | 24.0        |
| Germany               | 25.9        | 29.1        | 29.2        | 33.1        | 34.7        | 39.6        | 43.7        | 39.4        | 43.3        |
| Greece                | 24.1        | 28.6        | 27.4        | 25.0        | 30.3        | 33.1        | 36.4        | 40.5        | 42.6        |
| Hungary               | 10.7        | 10.6        | 10.2        | 10.6        | 11.7        | 13.7        | 15.8        | 19.1        | 21.4        |
| Iceland               | 100.0       | 100.0       | 100.0       | 100.0       | 100.0       | 100.0       | 100.0       | 100.0       | 100.0       |
| Ireland               | 24.5        | 27.7        | 24.6        | 28.8        | 32.8        | 38.1        | 41.7        | 36.4        | 38.6        |
| Italy                 | 43.1        | 38.5        | 37.3        | 35.1        | 39.5        | 39.4        | 41.7        | 40.2        | 35.4        |
| Kosovo*               | 2.8         | 2.3         | 4.1         | 3.0         | 5.1         | 4.9         | 5.4         | 6.4         | 9.0         |
| Latvia                | 54.5        | 50.2        | 54.2        | 72.5        | 52.0        | 49.6        | 63.7        | 63.6        | 75.7        |
| Lithuania             | 34.4        | 34.0        | 49.1        | 60.6        | 62.8        | 62.2        | 46.7        | 51.6        | 63.3        |
| Luxembourg            | 13.4        | 15.6        | 20.8        | 26.9        | 31.1        | 41.7        | 43.7        | 44.8        | 45.2        |
| Malta                 | 3.4         | 7.8         | 15.9        | 10.4        | 10.1        | 9.8         | 11.3        | 11.9        | 12.9        |
| Moldova Rep           | 9.4         | 6.8         | 5.9         | 10.0        | 9.0         | 9.4         | 8.2         | 9.2         | 12.4        |
| Montenegro            | 55.2        | 49.7        | 58.7        | 45.1        | 59.2        | 56.2        | 52.2        | 61.8        | 53.3        |
| Netherlands           | 11.3        | 12.4        | 12.8        | 14.9        | 16.5        | 18.8        | 26.6        | 33.1        | 39.7        |
| North Macedonia       | 24.0        | 35.9        | 36.7        | 23.1        | 35.1        | 22.9        | 27.6        | 30.0        | 26.9        |
| Norway                | 97.2        | 96.9        | 97.4        | 97.3        | 97.3        | 97.2        | 98.0        | 98.8        | 97.8        |
| Poland                | 12.5        | 13.8        | 13.7        | 14.2        | 12.7        | 15.5        | 17.9        | 17.0        | 21.0        |
| Portugal              | 59.8        | 46.5        | 53.6        | 38.0        | 49.3        | 51.6        | 56.7        | 61.9        | 56.6        |
| Romania               | 41.3        | 39.5        | 41.4        | 37.8        | 40.4        | 41.3        | 44.0        | 44.3        | 42.2        |
| Serbia                | 32.4        | 26.4        | 27.6        | 25.1        | 29.2        | 28.0        | 27.0        | 33.1        | 28.1        |
| Slovakia              | 22.7        | 22.5        | 24.5        | 23.5        | 21.5        | 23.4        | 23.8        | 22.6        | 21.7        |
| Slovenia              | 37.9        | 28.8        | 30.7        | 27.2        | 32.0        | 31.3        | 32.5        | 34.3        | 29.9        |
| Spain                 | 39.6        | 34.6        | 38.1        | 31.9        | 37.9        | 37.0        | 43.2        | 45.8        | 42.0        |
| Sweden                | 55.8        | 63.2        | 57.1        | 57.9        | 55.8        | 58.7        | 68.4        | 67.4        | 68.3        |
| Switzerland           | 56.7        | 60.7        | 59.9        | 59.9        | 56.3        | 57.5        | 59.5        | 63.6        | 54.8        |
| UK                    | 19.1        | 24.7        | 24.6        | 29.3        | 33.1        | 37.0        | 43.3        | 39.8        | 41.7        |
| Ukraine               | 5.9         | 4.8         | 6.0         | 7.7         | 8.6         | 8.3         | 11.4        | 11.4        | 16.5        |
| <b>European Union</b> | <b>29.3</b> | <b>29.5</b> | <b>29.8</b> | <b>29.6</b> | <b>31.9</b> | <b>33.6</b> | <b>38.0</b> | <b>37.0</b> | <b>38.2</b> |
| <b>Middle East</b>    | <b>2.0</b>  | <b>1.8</b>  | <b>2.1</b>  | <b>1.9</b>  | <b>2.1</b>  | <b>3.9</b>  | <b>3.5</b>  | <b>3.0</b>  | <b>3.4</b>  |
| Bahrain               | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.1         | 0.1         | 0.1         | 0.2         |
| Iran IR               | 5.1         | 5.1         | 5.8         | 5.0         | 5.4         | 9.5         | 7.0         | 4.2         | 4.2         |
| Iraq                  | 4.4         | 3.8         | 4.3         | 2.6         | 2.6         | 6.0         | 5.3         | 4.2         | 2.6         |
| Israel                | 1.6         | 2.1         | 2.6         | 2.9         | 3.1         | 4.7         | 6.2         | 7.6         | 8.6         |
| Jordan                | 0.4         | 1.2         | 4.4         | 6.7         | 10.6        | 14.3        | 20.1        | 23.5        | 24.0        |
| Kuwait                | 0.0         | 0.0         | 0.1         | 0.1         | 0.1         | 0.1         | 0.1         | 0.3         | 2.3         |
| Lebanon               | 1.7         | 4.2         | 3.3         | 3.5         | 2.0         | 4.8         | 5.7         | 6.5         | 8.7         |
| Oman                  | 0.0         | 0.0         | 0.0         | 0.0         | 0.1         | 0.2         | 0.4         | 2.0         | 4.0         |
| Palestine             | 0.9         | 1.8         | 7.9         | 8.3         | 14.3        | 15.2        | 21.3        | 24.5        | 24.7        |
| Qatar                 | 0.3         | 0.3         | 0.3         | 0.3         | 0.3         | 0.3         | 0.3         | 0.3         | 0.3         |
| Saudi Arabia          | 0.0         | 0.0         | 0.0         | 0.0         | 0.1         | 0.1         | 0.2         | 0.2         | 0.7         |
| Syrian AR             | 10.0        | 2.3         | 5.2         | 3.7         | 3.0         | 3.0         | 3.1         | 5.0         | 5.2         |
| United Arab Em        | 0.3         | 0.2         | 0.2         | 0.6         | 0.9         | 2.6         | 3.8         | 4.2         | 5.0         |
| Yemen                 | 0.1         | 2.0         | 3.3         | 4.9         | 14.0        | 15.0        | 16.9        | 16.9        | 17.3        |
| <b>N America</b>      | <b>19.4</b> | <b>19.6</b> | <b>21.1</b> | <b>23.0</b> | <b>22.5</b> | <b>23.2</b> | <b>25.4</b> | <b>25.5</b> | <b>27.0</b> |
| Canada                | 63.1        | 64.0        | 64.8        | 66.5        | 65.9        | 65.8        | 67.0        | 67.5        | 69.0        |
| Greenland             | 73.9        | 75.3        | 75.3        | 71.2        | 72.6        | 75.0        | 74.3        | 77.0        | 77.9        |
| Mexico                | 17.5        | 15.3        | 15.3        | 16.3        | 15.2        | 16.0        | 19.8        | 19.2        | 22.2        |
| St Pierre Mq          | 0.1         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         |
| USA                   | 12.9        | 13.2        | 14.7        | 16.8        | 16.7        | 17.5        | 19.4        | 19.8        | 21.3        |

# Renewable energy share of electricity production

## Part d'énergie renouvelable dans la production d'électricité

## Porcentaje de energía renovable en la generación eléctrica

| PROD (%GWh)      | 2014        | 2015        | 2016        | 2017        | 2018        | 2019        | 2020        | 2021        | 2022        |
|------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| <b>Oceania</b>   | <b>24.3</b> | <b>23.4</b> | <b>24.7</b> | <b>25.2</b> | <b>26.6</b> | <b>28.6</b> | <b>30.6</b> | <b>34.2</b> | <b>38.2</b> |
| Amer Samoa       | 1.5         | 1.5         | 3.6         | 4.6         | 4.8         | 4.3         | 3.7         | 3.1         | 3.0         |
| Australia        | 14.6        | 13.3        | 14.5        | 15.6        | 17.0        | 19.6        | 22.5        | 26.5        | 30.7        |
| Cook Is          | 4.4         | 10.6        | 13.6        | 16.0        | 24.2        | 25.1        | 26.2        | 21.1        | 19.1        |
| Fiji             | 49.2        | 47.8        | 53.8        | 51.3        | 58.3        | 54.5        | 59.8        | 60.1        | 58.3        |
| Fr Polynesia     | 29.1        | 29.7        | 31.5        | 30.9        | 29.3        | 28.9        | 30.4        | 28.5        | 35.7        |
| Guam             | 0.2         | 1.8         | 3.8         | 3.6         | 4.3         | 4.5         | 4.7         | 4.8         | 8.3         |
| Kiribati         | 6.2         | 16.4        | 17.1        | 17.2        | 17.3        | 16.7        | 16.7        | 16.7        | 16.7        |
| Marshall Is      | 1.7         | 1.7         | 2.1         | 2.4         | 2.9         | 2.9         | 2.9         | 2.8         | 2.9         |
| Micronesia       | 3.4         | 4.6         | 4.5         | 4.5         | 5.6         | 5.8         | 5.3         | 4.8         | 4.8         |
| Nauru            | 0.7         | 0.7         | 0.8         | 3.1         | 3.1         | 3.8         | 6.1         | 8.6         | 8.8         |
| New Caledon      | 11.7        | 14.1        | 9.2         | 13.5        | 11.7        | 13.7        | 15.6        | 22.5        | 25.7        |
| New Zealand      | 79.5        | 80.5        | 84.6        | 81.5        | 83.7        | 82.0        | 80.4        | 81.4        | 86.6        |
| Niue             | 14.5        | 13.8        | 13.8        | 13.8        | 13.8        | 13.8        | 13.8        | 13.8        | 10.5        |
| Palau            | 1.8         | 1.8         | 3.3         | 3.4         | 3.6         | 3.5         | 3.9         | 5.9         | 5.9         |
| Papua N Guin     | 35.0        | 35.5        | 34.8        | 33.4        | 32.3        | 41.9        | 39.9        | 40.0        | 28.8        |
| Samoa            | 25.9        | 29.8        | 31.4        | 36.1        | 42.6        | 40.6        | 47.6        | 43.3        | 32.7        |
| Solomon Is       | 6.4         | 6.9         | 7.6         | 7.8         | 6.4         | 6.7         | 6.6         | 7.1         | 9.2         |
| Tokelau          | 92.1        | 94.0        | 94.5        | 94.5        | 94.0        | 94.2        | 94.2        | 94.2        | 94.2        |
| Tonga            | 6.8         | 7.9         | 8.4         | 9.3         | 10.9        | 12.7        | 14.1        | 12.0        | 10.1        |
| Tuvalu           | 2.8         | 11.6        | 23.6        | 23.3        | 19.2        | 19.1        | 15.8        | 15.3        | 15.3        |
| Vanuatu          | 25.5        | 29.8        | 21.0        | 20.7        | 23.4        | 27.3        | 28.4        | 25.2        | 22.7        |
| <b>S America</b> | <b>63.2</b> | <b>62.7</b> | <b>65.3</b> | <b>67.6</b> | <b>70.0</b> | <b>70.7</b> | <b>71.6</b> | <b>68.5</b> | <b>75.0</b> |
| Argentina        | 24.8        | 23.5        | 21.5        | 23.4        | 24.1        | 25.2        | 25.8        | 24.4        | 29.2        |
| Bolivia          | 27.9        | 29.4        | 20.6        | 25.4        | 29.8        | 36.4        | 35.7        | 38.3        | 36.5        |
| Brazil           | 72.6        | 73.5        | 79.7        | 78.4        | 81.6        | 81.4        | 83.2        | 77.4        | 87.7        |
| Chile            | 43.0        | 43.6        | 43.4        | 44.0        | 46.3        | 46.6        | 48.8        | 49.2        | 55.4        |
| Colombia         | 69.3        | 64.7        | 67.4        | 79.0        | 76.7        | 69.7        | 65.2        | 74.3        | 74.4        |
| Ecuador          | 49.2        | 52.6        | 60.2        | 73.7        | 72.6        | 78.1        | 79.7        | 81.0        | 76.1        |
| Falklands Malv   | 31.4        | 30.9        | 32.6        | 32.0        | 30.7        | 29.3        | 23.9        | 24.4        | 24.3        |
| Fr Guiana        | 60.3        | 58.9        | 54.0        | 66.9        | 63.6        | 49.3        | 52.1        | 69.1        | 71.2        |
| Guyana           | 8.1         | 6.7         | 7.8         | 7.7         | 7.7         | 7.2         | 7.4         | 7.5         | 7.6         |
| Paraguay         | 100.0       | 100.0       | 100.0       | 100.0       | 100.0       | 100.0       | 100.0       | 100.0       | 100.0       |
| Peru             | 49.9        | 52.6        | 47.3        | 59.0        | 61.2        | 60.8        | 64.3        | 61.6        | 55.7        |
| South Georgia    | 95.0        | 94.5        | 93.2        | 95.9        | 98.6        | 99.0        | 99.0        | 100.0       | 100.0       |
| Suriname         | 35.2        | 28.9        | 43.6        | 51.8        | 56.3        | 51.5        | 39.7        | 53.9        | 53.9        |
| Uruguay          | 94.6        | 92.3        | 96.5        | 98.2        | 97.2        | 98.1        | 93.2        | 83.4        | 90.2        |
| Venezuela        | 60.7        | 58.2        | 53.4        | 62.5        | 69.3        | 78.9        | 81.5        | 80.1        | 77.4        |



Renewable Energy Balances: Countries A - F

Bilans Énergétiques Renouvelables: Pays A - F

Balances de Energía Renovable: Países A - F

## Afghanistan

## Afghanistan

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                               |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios   |                             |          | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total         |     |
|---|------------------------------|----------------------------|---|---------------------------------|-------------------------------|--|-----------------------------------|---|---|-----------------------------|----------|--|-------------------------------|---|--------------------------|---------------|-----|
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás |          |  |                               |   |                          |               |     |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaaria |                                 |                               |  |                                   |   | Primary energy - Énergie primaire - Energía primaaria   |                             |          |  |                               |   |                          |               |     |
| Production - Production - Generación  | 2 656                        | 0                          | 338   |                                 |                               |  |                                   |   | 23 038  | 0                           | 0        |  | 1                             | 14 981                                  |                          | 26 034        |     |
| Imports - Importations - Importaciones  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |          |  | - 0                           |   |                          | 14 982        |     |
| Exports - Exportations - Exportaciones  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |          |  |                               |   |                          | - 0           |     |
| Stock - Stocks - Inventario (+/-)   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |          |  |                               |   |                          |               |     |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>2 656</b>                 | <b>0</b>                   | <b>338</b>  |                                 |                               |  |                                   |   | <b>23 038</b>   |                             | <b>0</b> |  | <b>1</b>                      | <b>14 981</b>                           |                          | <b>41 016</b> |     |
| Differences - Ecarts - Diferencias  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |          |  |                               |   |                          |               |     |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |   |                                 |                               |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                             |          |  |                               |   |                          |               |     |
| Electricity - Électricité - Electrica   | - 2 656                      | - 0                        | - 338   |                                 |                               |  |                                   |   | - 10 686  |                             |          |  |                               | 4 837                                   |                          | 2 995         |     |
| CHP - Cogénération - Cogeneración   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |          |  |                               |   |                          |               |     |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |          |  |                               |   |                          |               |     |
| Charcoal - Charbon - Carbón   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |          |  |                               |   |                          |               |     |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |          |  |                               |   |                          |               |     |
| Other - Autres - Otras  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |          |  |                               |   |                          |               |     |
| Own use - Consomm. propre - Uso propio  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |          |  |                               |   |                          |               |     |
| Distribution - Distribution - Distribución  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |          |  |                               |   |                          |               |     |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |   |                                 |                               |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                             |          |  |                               |   |                          |               |     |
| Total - Total - Total   |                              |                            |   |                                 |                               |  |                                   |   | 12 353  |                             | 0        |  | 4 838                         | 12 679                                  |                          | 29 870        |     |
| Industry - Industrie - Industria  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |          |  |                               | 1 978                                   |                          | 1978          |     |
| Transport - Transport - Transporte  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |          |  |                               |   |                          |               |     |
| Commerce - Commerce - Comercial   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |          |  |                               |   |                          |               |     |
| Residential - Résidentiel - Residencial   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |          |  |                               |   |                          |               |     |
| Other - Autres - Otros  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |          |  |                               |   |                          |               |     |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |   |                                 |                               |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                             |          |  |                               |   |                          |               |     |
| Total - Total - Total   | 11 247                       | 2                          | 1 431   |                                 |                               |  |                                   |   | 12 353  |                             | 0        |  | 4 838                         | 12 679                                  |                          | 29 870        |     |
| Electricity - Électricité - Electrica   | 11 247                       | 2                          | 1 431   |                                 |                               |  |                                   |   |   |                             |          |  |                               |   |                          | 12 679        |     |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |          |  |                               |   |                          |               |     |
| Direct use - Utilisation directe - Uso directo  |                              |                            |   |                                 |                               |  |                                   |   | 12 353  |                             | 0        |  | 4 838                         |   |                          | 17 191        |     |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |   |                                 |                               |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                             |          |  |                               |   |                          |               |     |
| Electricity - Électricité - Electrica (in/en GWh)   | 738                          | 0                          | 94  |                                 |                               |  |                                   |   |   |                             |          |  |                               |   |                          |               | 832 |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |          |  |                               |   |                          |               |     |
| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                               |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios   |                             |          | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total         |     |
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás |          |  |                               |   |                          |               |     |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaaria |                                 |                               |  |                                   |   | Primary energy - Énergie primaire - Energía primaaria   |                             |          |  |                               |   |                          |               |     |
| Production - Production - Generación  | 3 059                        | 0                          | 284   |                                 |                               |  |                                   |   | 22 624  | 0                           | 0        |  | 1                             | 14 713                                  |                          | 25 968        |     |
| Imports - Importations - Importaciones  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |          |  | - 0                           |   |                          | 14 715        |     |
| Exports - Exportations - Exportaciones  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |          |  |                               |   |                          | - 0           |     |
| Stock - Stocks - Inventario (+/-)   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |          |  |                               |   |                          |               |     |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>3 059</b>                 | <b>0</b>                   | <b>284</b>  |                                 |                               |  |                                   |   | <b>22 624</b>   |                             | <b>0</b> |  | <b>1</b>                      | <b>14 713</b>                           |                          | <b>40 682</b> |     |
| Differences - Ecarts - Diferencias  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |          |  |                               |   |                          |               |     |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |   |                                 |                               |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                             |          |  |                               |   |                          |               |     |
| Electricity - Électricité - Electrica   | - 3 059                      | - 0                        | - 284   |                                 |                               |  |                                   |   | - 10 394  |                             |          |  |                               | 4 705                                   |                          | 3 343         |     |
| CHP - Cogénération - Cogeneración   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |          |  |                               |   |                          |               |     |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |          |  |                               |   |                          |               |     |
| Charcoal - Charbon - Carbón   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |          |  |                               |   |                          |               |     |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |          |  |                               |   |                          |               |     |
| Other - Autres - Otras  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |          |  |                               |   |                          |               |     |
| Own use - Consomm. propre - Uso propio  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |          |  |                               |   |                          |               |     |
| Distribution - Distribution - Distribución  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |          |  |                               |   |                          |               |     |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |   |                                 |                               |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                             |          |  |                               |   |                          |               |     |
| Total - Total - Total   |                              |                            |   |                                 |                               |  |                                   |   | 12 230  |                             | 0        |  | 4 707                         | 11 943                                  |                          | 28 880        |     |
| Industry - Industrie - Industria  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |          |  |                               | 1 671                                   |                          | 1 671         |     |
| Transport - Transport - Transporte  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |          |  |                               |   |                          |               |     |
| Commerce - Commerce - Comercial   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |          |  |                               |   |                          |               |     |
| Residential - Résidentiel - Residencial   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |          |  |                               |   |                          |               |     |
| Other - Autres - Otros  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |          |  |                               |   |                          |               |     |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |   |                                 |                               |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                             |          |  |                               |   |                          |               |     |
| Total - Total - Total   | 10 929                       | 2                          | 1 013   |                                 |                               |  |                                   |   | 12 230  |                             | 0        |  | 4 707                         | 11 943                                  |                          | 28 880        |     |
| Electricity - Électricité - Electrica   | 10 929                       | 2                          | 1 013   |                                 |                               |  |                                   |   |   |                             |          |  |                               |   |                          | 11 943        |     |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |          |  |                               |   |                          |               |     |
| Direct use - Utilisation directe - Uso directo  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |          |  |                               |   |                          | 16 937        |     |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |   |                                 |                               |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                             |          |  |                               |   |                          |               |     |
| Electricity - Électricité - Electrica (in/en GWh)   | 850                          | 0                          | 79  |                                 |                               |  |                                   |   |   |                             |          |  |                               |   |                          |               | 929 |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |          |  |                               |   |                          |               |     |

## Albania

## Albania

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                               |                                 | Geothermal<br>Géothermique<br>Geotérmica              | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primariares -<br>Biocombustibles primarios                                       |                                 |                             | Pellets/briq.<br>Granules/briq.<br>Pellets/briq.                              | Charcoal<br>Carbon<br>Carbón | Electricity<br>Electricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total    |
|---|------------------------------|----------------------------|---|---------------------------------|---|-----------------------------------|---|---|---------------------------------|-----------------------------|---|------------------------------|---|--------------------------|----------|
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica |   |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás |   |                              |   |                          |          |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaaria |                                 | Primary energy - Énergie primaire - Energía primaaria |                                   |   | Primary biofuels - Biocombustibles primariares -<br>Biocombustibles primarios                                       |                                 |                             |   |                              |   |                          |          |
| Production - Production - Generación  | 24 630                       |                            | 579   | 624                             |   |                                   |   | 6 155   | 5 435                           |                             | 41  | 10 957                       |   |                          | 31 988   |
| Imports - Importations - Importaciones  |                              |                            |   |                                 | 263   |                                   |   | - 241   |                                 |                             | - 7 641   |                              |   |                          | 16 696   |
| Exports - Exportations - Exportaciones  |                              |                            |   |                                 | 134   |                                   |   |   |                                 |                             |   |                              |   |                          | - 7 749  |
| Stock - Stocks - Inventario (+/-)   | 24 630                       |                            | 579   | 624                             |   |                                   |   | 6 552   | 5 435                           |                             | - 241   | 41                           | 3 316                                   |                          | 40 935   |
| Supply - Approvisionnement - Oferta   |                              |                            |   |                                 | 0   |                                   |   |   |                                 |                             |   | 22                           |   |                          | 22       |
| Differences - écarts - Diferencias  |                              |                            |   |                                 |   |                                   |   |   |                                 |                             |   |                              |   |                          |          |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |   |                                 |   |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                                 |                             |   |                              |   |                          |          |
| Electricity - Électricité - Electrica   | - 24 630                     |                            | - 579   |                                 |   |                                   |   | - 237   |                                 |                             |   | 375                          | 36                                      | 25 210                   |          |
| CHP - Cogénération - Cogeneración   |                              |                            |   |                                 |   |                                   |   | - 375   |                                 |                             |   |                              |   |                          | - 202    |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |   |                                   |   |   |                                 |                             |   |                              |   |                          | - 0      |
| Charcoal - Charbon - Carbón   |                              |                            |   |                                 |   |                                   |   |   |                                 |                             |   |                              |   |                          |          |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |   |                                 |   |                                   |   |   |                                 |                             |   |                              |   |                          |          |
| Other - Autres - Otras  |                              |                            |   |                                 |   |                                   |   |   |                                 |                             |   |                              |   |                          |          |
| Own use - Consomm. propre - Uso propio  |                              |                            |   |                                 |   |                                   |   |   |                                 |                             |   |                              |   |                          |          |
| Distribution - Distribution - Distribución  |                              |                            |   |                                 |   |                                   |   |   |                                 |                             |   |                              |   |                          |          |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |   |                                 |   |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                                 |                             |   |                              |   |                          |          |
| Total - Total - Total   |                              |                            | 624   |                                 |   |                                   |   | 5 940   | 5 435                           |                             | 134   | 77                           | 23 737                                  |                          | 35 945   |
| Industry - Industrie - Industria  |                              |                            | 63  |                                 |   |                                   |   | 327   | 5 435                           |                             |   |                              |   |                          | 6 369    |
| Transport - Transport - Transporte  |                              |                            |   |                                 |   |                                   |   |   |                                 |                             |   |                              |   |                          | 5 456    |
| Commerce - Commerce - Comercial   |                              |                            | 179   |                                 |   |                                   |   | 406   |                                 |                             | 20  | 65                           | 5 148                                   |                          | 5 818    |
| Residential - Résidentiel - Residencial   |                              |                            | 382   |                                 |   |                                   |   | 4 688   |                                 |                             | 114   | 12                           | 12 092                                  |                          | 17 287   |
| Other - Autres - Otros  |                              |                            |   |                                 | 519   |                                   |   |   |                                 |                             |   |                              |   |                          | 1 015    |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |   |                                 |   |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                                 |                             |   |                              |   |                          |          |
| Total - Total - Total   | 23 191                       |                            | 545   | 624                             |   |                                   |   | 5 940   | 5 435                           |                             | 134   | 77                           |   |                          | 35 945   |
| Electricity - Électricité - Electrica   |                              |                            | 545   |                                 |   |                                   |   |   |                                 |                             |   |                              |   |                          | 23 737   |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |   |                                   |   |   |                                 |                             |   |                              |   |                          |          |
| Direct use - Utilisation directe - Uso directo  |                              |                            |   | 624                             |   |                                   |   |   |                                 |                             |   |                              |   |                          | 12 209   |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |   |                                 |   |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                                 |                             |   |                              |   |                          |          |
| Electricity - Électricité - Electrica (in/en GWh)   | 6 842                        |                            |   | 161                             |   |                                   |   |   |                                 |                             |   |                              |   |                          | 7 003    |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |   |                                 |   |                                   |   |   |                                 |                             |   |                              |   |                          |          |
| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                               |                                 | Geothermal<br>Géothermique<br>Geotérmica              | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primariares -<br>Biocombustibles primarios                                       |                                 |                             | Pellets/briq.<br>Granules/briq.<br>Pellets/briq.                              | Charcoal<br>Carbon<br>Carbón | Electricity<br>Electricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total    |
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica |   |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás |   |                              |   |                          |          |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaaria |                                 |   |                                   |   | Primary energy - Énergie primaire - Energía primaaria   |                                 |                             | Primary biofuels - Biocombustibles primariares -<br>Biocombustibles primarios |                              |   |                          |          |
| Production - Production - Generación  | 32 119                       |                            | 147   | 569                             |   |                                   |   | 6 440   | 4 472                           |                             | - 162   | 74                           | 8 107                                   |                          | 39 275   |
| Imports - Importations - Importaciones  |                              |                            |   |                                 | 263   |                                   |   | - 79  |                                 |                             |   |                              | - 10 080                                |                          | 12 917   |
| Exports - Exportations - Exportaciones  | 32 119                       |                            | 147   | 569                             |   |                                   |   | 6 624   | 4 472                           |                             | - 162   | 74                           | - 1 973                                 |                          | - 10 321 |
| Stock - Stocks - Inventario (+/-)   |                              |                            |   |                                 |   |                                   |   |   |                                 |                             |   |                              |   |                          | 41 871   |
| Supply - Approvisionnement - Oferta   |                              |                            |   |                                 |   |                                   |   |   |                                 |                             |   |                              |   |                          | 166      |
| Differences - écarts - Diferencias  |                              |                            |   |                                 |   |                                   |   |   |                                 |                             |   |                              |   |                          |          |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |   |                                 |   |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                                 |                             |   |                              |   |                          |          |
| Electricity - Électricité - Electrica   | - 32 119                     |                            | - 147   |                                 |   |                                   |   | - 243   |                                 |                             |   | 370                          | 30                                      | 32 266                   |          |
| CHP - Cogénération - Cogeneración   |                              |                            |   |                                 |   |                                   |   | - 370   |                                 |                             |   |                              |   |                          | - 213    |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |   |                                   |   |   |                                 |                             |   |                              |   |                          | 0        |
| Charcoal - Charbon - Carbón   |                              |                            |   |                                 |   |                                   |   |   |                                 |                             |   |                              |   |                          |          |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |   |                                 |   |                                   |   |   |                                 |                             |   |                              |   |                          |          |
| Other - Autres - Otras  |                              |                            |   |                                 |   |                                   |   |   |                                 |                             |   |                              |   |                          |          |
| Own use - Consomm. propre - Uso propio  |                              |                            |   |                                 |   |                                   |   |   |                                 |                             |   |                              |   |                          |          |
| Distribution - Distribution - Distribución  |                              |                            |   |                                 |   |                                   |   |   |                                 |                             |   |                              |   |                          |          |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |   |                                 |   |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                                 |                             |   |                              |   |                          |          |
| Total - Total - Total   |                              |                            | 569   |                                 |   |                                   |   | 6 011   | 4 472                           |                             | 208   | 104                          | 24 163                                  |                          | 35 528   |
| Industry - Industrie - Industria  |                              |                            | 46  |                                 |   |                                   |   | 314   |                                 |                             |   |                              |   |                          | 5 470    |
| Transport - Transport - Transporte  |                              |                            |   |                                 |   |                                   |   |   | 4 472                           |                             |   |                              |   |                          | 4 492    |
| Commerce - Commerce - Comercial   |                              |                            | 183   |                                 |   |                                   |   | 345   |                                 |                             | 31  | 89                           | 5 665                                   |                          | 6 313    |
| Residential - Résidentiel - Residencial   |                              |                            | 340   |                                 |   |                                   |   | 4 833   |                                 |                             | 177   | 15                           | 12 617                                  |                          | 17 981   |
| Other - Autres - Otros  |                              |                            |   |                                 | 519   |                                   |   |   |                                 |                             |   |                              |   |                          | 1 271    |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |   |                                 |   |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                                 |                             |   |                              |   |                          |          |
| Total - Total - Total   | 24 053                       |                            | 110   | 569                             |   |                                   |   | 6 011   | 4 472                           |                             | 208   | 104                          |   |                          | 35 528   |
| Electricity - Électricité - Electrica   |                              |                            | 110   |                                 |   |                                   |   |   |                                 |                             |   |                              |   |                          | 24 163   |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |   |                                   |   |   |                                 |                             |   |                              |   |                          |          |
| Direct use - Utilisation directe - Uso directo  |                              |                            |   | 569                             |   |                                   |   |   |                                 |                             |   |                              |   |                          | 11 365   |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |   |                                 |   |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                                 |                             |   |                              |   |                          |          |
| Electricity - Électricité - Electrica (in/en GWh)   | 8 922                        |                            |   | 41                              |   |                                   |   |   |                                 |                             |   |                              |   |                          | 8 963    |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |   |                                 |   |                                   |   |   |                                 |                             |   |                              |   |                          |          |

## Algeria

## Algeria

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Éolica | Solar - Solaire - Solar                        |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                             |  | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total |
|---|------------------------------|----------------------------|--|---------------------------------|-------------------------------|--|-----------------------------------|---|---|-----------------------------|--|--|-------------------------------|---|--------------------------|-------|
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás |  |  |                               |   |                          |       |
| <b>Primary energy - Énergie primaire - Energía primaaria</b>  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |       |
| Production - Production - Generación  | 58                           | 58                         | 2 581  | 425                             |                               |  |                                   |   | 1032  |                             |  |  |                               |   | 6                        | 4 154 |
| Imports - Importations - Importaciones  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   | - 94                     | 6     |
| Exports - Exportations - Exportaciones  |                              |                            |  |                                 |                               |  |                                   |   | 1032  |                             |  |  |                               |   | - 88                     | - 94  |
| Stock - Stocks - Inventario (+/-)   |                              |                            | 58   | 58                              | 2 581                         | 425                                      |                                   |   |   |                             |  |  |                               |   |                          | 4 066 |
| <b>Supply - Approvisionnement - Oferta</b>  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |       |
| <i>Differences - écarts - Diferencias</i>   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |       |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |       |
| Electricity - Électricité - Electrica   |                              |                            | - 58   | - 58                            | - 2 581                       | - 425                                    |                                   |   |   |                             |  |  |                               |   |                          | 0     |
| CHP - Cogénération - Cogeneración   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |       |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          | - 0   |
| Charcoal - Charbon - Carbón   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          | - 0   |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |       |
| Other - Autres - Otras  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |       |
| Own use - Consomm. propre - Uso propio  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          | - 433 |
| Distribution - Distribution - Distribución  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          | - 300 |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |       |
| <b>Total - Total - Total</b>  |                              |                            |  |                                 |                               |  |                                   |   | 1032  |                             |  |  |                               | 0                                       | 2 301                    | 3 333 |
| Industry - Industrie - Industria  |                              |                            |  |                                 |                               |  |                                   |   | 703   |                             |  |  |                               | 777                                     | 1 480                    | 1 480 |
| Transport - Transport - Transporte  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               | 57                                      |                          | 57    |
| Commerce - Commerce - Comercial   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               | 888                                     |                          | 1 217 |
| Residential - Résidentiel - Residencial   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               | 0                                       | 579                      | 579   |
| Other - Autres - Otros  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |       |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |       |
| <b>Total - Total - Total</b>  | 42                           | 42                         | 1 903  | 313                             |                               |  |                                   |   | 1032  |                             |  |  |                               | 0                                       |                          | 3 333 |
| Electricity - Électricité - Electrica   | 42                           | 42                         | 1 903  | 313                             |                               |  |                                   |   |   |                             |  |  |                               |   |                          | 2 301 |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          | 1 032 |
| Direct use - Utilisation directe - Uso directo  |                              |                            |  |                                 |                               |  |                                   |   | 1032  |                             |  |  |                               | 0                                       |                          |       |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |       |
| Electricity - Électricité - Electrica (in/en GWh)   | 16                           | 16                         | 717  | 118                             |                               |  |                                   |   |   |                             |  |  |                               |   |                          | 867   |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |       |

| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Éolica | Solar - Solaire - Solar                        |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                             |  | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total |
|---|------------------------------|----------------------------|--|---------------------------------|-------------------------------|--|-----------------------------------|---|---|-----------------------------|--|--|-------------------------------|---|--------------------------|-------|
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás |  |  |                               |   |                          |       |
| <b>Primary energy - Énergie primaire - Energía primaaria</b>  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |       |
| Production - Production - Generación  | 32                           | 40                         | 2 430  | 425                             |                               |  |                                   |   | 150   |                             |  |  |                               |   | 13                       | 3 077 |
| Imports - Importations - Importaciones  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   | - 52                     | - 52  |
| Exports - Exportations - Exportaciones  |                              |                            | 32   | 40                              | 2 430                         | 425                                      |                                   |   | 150   |                             |  |  |                               | - 39                                    |                          | 3 038 |
| Stock - Stocks - Inventario (+/-)   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |       |
| <b>Supply - Approvisionnement - Oferta</b>  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |       |
| <i>Differences - écarts - Diferencias</i>   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |       |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |       |
| Electricity - Électricité - Electrica   |                              |                            | - 32   | - 40                            | - 2 430                       | - 425                                    |                                   |   |   |                             |  |  |                               | 2 927                                   |                          |       |
| CHP - Cogénération - Cogeneración   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               | 1                                       |                          | - 1   |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               | - 405                                   |                          | - 405 |
| Charcoal - Charbon - Carbón   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               | - 307                                   |                          | - 307 |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |       |
| Other - Autres - Otras  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |       |
| Own use - Consomm. propre - Uso propio  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |       |
| Distribution - Distribution - Distribución  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |       |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |       |
| <b>Total - Total - Total</b>  |                              |                            |  |                                 |                               |  |                                   |   | 147   |                             |  |  |                               | 1                                       | 2 175                    | 2 323 |
| Industry - Industrie - Industria  |                              |                            |  |                                 |                               |  |                                   |   | 102   |                             |  |  |                               | 740                                     |                          | 842   |
| Transport - Transport - Transporte  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               | 55                                      |                          | 55    |
| Commerce - Commerce - Comercial   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               | 854                                     |                          | 899   |
| Residential - Résidentiel - Residencial   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               | 526                                     |                          | 527   |
| Other - Autres - Otros  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |       |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |       |
| <b>Total - Total - Total</b>  | 24                           | 29                         | 1 806  | 316                             |                               |  |                                   |   | 147   |                             |  |  |                               | 1                                       |                          | 2 323 |
| Electricity - Électricité - Electrica   | 24                           | 29                         | 1 806  | 316                             |                               |  |                                   |   |   |                             |  |  |                               |   |                          | 2 175 |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               | 1                                       |                          | 148   |
| Direct use - Utilisation directe - Uso directo  |                              |                            |  |                                 |                               |  |                                   |   | 147   |                             |  |  |                               |   |                          |       |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |       |
| Electricity - Électricité - Electrica (in/en GWh)   | 9                            | 11                         | 675  | 118                             |                               |  |                                   |   |   |                             |  |  |                               |   |                          | 813   |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |       |

**Angola**

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                               |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                              |  | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbon | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | <b>Total</b>  |                |        |
|---|------------------------------|----------------------------|---|---------------------------------|-------------------------------|--|-----------------------------------|---|---|------------------------------|--|--|-------------------------------|---|--------------------------|---------------|----------------|--------|
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Bioegas - Biogaz<br>- Biogás |  |  |                               |   |                          |               |                |        |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaaria |                                 |                               |  |                                   |   | Primary energy - Énergie primaire - Energía primaaria                       |                              |  |  |                               |   |                          |               |                |        |
| Production - Production - Generación  | 49 686                       |                            |   | 1 459                           |                               |  |                                   |   | 65 788  |                              |  |  |                               | 2                                       | 3 985                    |               | 116 934        |        |
| Imports - Importations - Importaciones  |                              |                            |   |                                 |                               |  |                                   |   |   |                              |  |  |                               |   |                          |               | 3 987          |        |
| Exports - Exportations - Exportaciones  |                              |                            |   |                                 |                               |  |                                   |   |   |                              |  |  |                               |   |                          |               |                |        |
| Stock - Stocks - Inventario (+/-)   | 49 686                       |                            |   | 1 459                           |                               |  |                                   |   | 65 788  |                              |  |  |                               | 2                                       | 3 985                    |               | 120 921        |        |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>49 686</b>                |                            |   | <b>1 459</b>                    |                               |  |                                   |   |   |                              |  |  |                               |   | <b>- 4 934</b>           |               | <b>- 4 934</b> |        |
| Differences - Ecarts - Diferencias  |                              |                            |   |                                 |                               |  |                                   |   |   |                              |  |  |                               |   |                          |               |                |        |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |   |                                 |                               |  |                                   |   |   |                              |  |  |                               |   |                          |               |                |        |
| Electricity - Électricité - Electrica   | - 49 686                     |                            |   | - 1 459                         |                               |  |                                   |   | - 4 800   |                              |  |  |                               |   | 51 865                   |               | - 4 080        |        |
| CHP - Cogénération - Cogeneración   |                              |                            |   |                                 |                               |  |                                   |   | - 720   |                              |  |  |                               |   |                          |               | - 720          |        |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |                               |  |                                   |   | - 29 287  |                              |  |  |                               |   | 13 257                   |               | - 16 029       |        |
| Charcoal - Charbon - Carbón   |                              |                            |   |                                 |                               |  |                                   |   |   |                              |  |  |                               |   |                          |               |                |        |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |   |                                 |                               |  |                                   |   |   |                              |  |  |                               |   |                          |               |                |        |
| Other - Autres - Otras  |                              |                            |   |                                 |                               |  |                                   |   |   |                              |  |  |                               |   |                          |               |                |        |
| Own use - Consomm. propre - Uso propio  |                              |                            |   |                                 |                               |  |                                   |   |   |                              |  |  |                               |   |                          |               |                |        |
| Distribution - Distribution - Distribución  |                              |                            |   |                                 |                               |  |                                   |   |   |                              |  |  |                               |   |                          |               |                |        |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |   |                                 |                               |  |                                   |   |   |                              |  |  |                               |   |                          |               |                |        |
| <b>Total - Total - Total</b>  |                              |                            |   |                                 |                               |  |                                   |   | <b>30 982</b>   |                              |  |  |                               |   | <b>13 259</b>            | <b>50 916</b> | <b>95 157</b>  |        |
| Industry - Industrie - Industria  |                              |                            |   |                                 |                               |  |                                   |   | 1 483   |                              |  |  |                               |   |                          | 16 378        |                | 17 861 |
| Transport - Transport - Transporte  |                              |                            |   |                                 |                               |  |                                   |   |   |                              |  |  |                               |   |                          |               |                |        |
| Commerce - Commerce - Comercial   |                              |                            |   |                                 |                               |  |                                   |   |   |                              |  |  |                               |   |                          |               |                |        |
| Residential - Résidentiel - Residencial   |                              |                            |   |                                 |                               |  |                                   |   |   |                              |  |  |                               |   |                          |               |                |        |
| Other - Autres - Otros  |                              |                            |   |                                 |                               |  |                                   |   |   |                              |  |  |                               |   |                          |               |                |        |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |   |                                 |                               |  |                                   |   |   |                              |  |  |                               |   |                          |               |                |        |
| <b>Total - Total - Total</b>  | <b>48 777</b>                |                            |   | <b>1 433</b>                    |                               |  |                                   |   | <b>31 688</b>   |                              |  |  |                               |   | <b>13 259</b>            |               | <b>95 157</b>  |        |
| Electricity - Électricité - Electrica   | 48 777                       |                            |   | 1 433                           |                               |  |                                   |   | 707   |                              |  |  |                               |   |                          |               | 50 916         |        |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |                               |  |                                   |   |   |                              |  |  |                               |   |                          |               | 44 241         |        |
| Direct use - Utilisation directe - Uso directo  |                              |                            |   |                                 |                               |  |                                   |   |   |                              |  |  |                               |   |                          |               |                |        |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |   |                                 |                               |  |                                   |   |   |                              |  |  |                               |   |                          |               |                |        |
| Electricity - Électricité - Electrica (in/en GWh)   | 13 802                       |                            |   | 405                             |                               |  |                                   |   | 200   |                              |  |  |                               |   |                          |               | 14 407         |        |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |   |                                 |                               |  |                                   |   |   |                              |  |  |                               |   |                          |               |                |        |
| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                               |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                              |  | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbon | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | <b>Total</b>  |                |        |
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Bioegas - Biogaz<br>- Biogás |  |  |                               |   |                          |               |                |        |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaaria |                                 |                               |  |                                   |   | Primary energy - Énergie primaire - Energía primaaria                       |                              |  |  |                               |   |                          |               |                |        |
| Production - Production - Generación  | 99 372                       |                            |   | 7                               |                               |  |                                   |   | 64 578  |                              |  |  |                               | 2                                       | 3 865                    |               | 163 958        |        |
| Imports - Importations - Importaciones  |                              |                            |   |                                 |                               |  |                                   |   |   |                              |  |  |                               |   | - 16                     |               | 3 867          |        |
| Exports - Exportations - Exportaciones  | 99 372                       |                            |   | 7                               |                               |  |                                   |   | 64 578  |                              |  |  |                               | - 14                                    | 3 865                    |               | 167 809        |        |
| Stock - Stocks - Inventario (+/-)   |                              |                            |   |                                 |                               |  |                                   |   |   |                              |  |  |                               |   | - 4 785                  |               | - 4 785        |        |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>99 372</b>                |                            |   | <b>7</b>                        |                               |  |                                   |   |   |                              |  |  |                               |   |                          |               |                |        |
| Differences - Ecarts - Diferencias  |                              |                            |   |                                 |                               |  |                                   |   |   |                              |  |  |                               |   |                          |               |                |        |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |   |                                 |                               |  |                                   |   |   |                              |  |  |                               |   |                          |               |                |        |
| Electricity - Électricité - Electrica   | - 99 372                     |                            |   | - 7                             |                               |  |                                   |   | - 4 800   |                              |  |  |                               |   | 50 413                   |               | - 53 766       |        |
| CHP - Cogénération - Cogeneración   |                              |                            |   |                                 |                               |  |                                   |   | - 720   |                              |  |  |                               |   |                          |               | - 720          |        |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |                               |  |                                   |   | - 28 411  |                              |  |  |                               |   | 12 861                   |               | - 15 550       |        |
| Charcoal - Charbon - Carbón   |                              |                            |   |                                 |                               |  |                                   |   |   |                              |  |  |                               |   |                          |               |                |        |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |   |                                 |                               |  |                                   |   |   |                              |  |  |                               |   |                          |               |                |        |
| Other - Autres - Otras  |                              |                            |   |                                 |                               |  |                                   |   |   |                              |  |  |                               |   |                          |               |                |        |
| Own use - Consomm. propre - Uso propio  |                              |                            |   |                                 |                               |  |                                   |   |   |                              |  |  |                               |   |                          |               |                |        |
| Distribution - Distribution - Distribución  |                              |                            |   |                                 |                               |  |                                   |   |   |                              |  |  |                               |   |                          |               |                |        |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |   |                                 |                               |  |                                   |   |   |                              |  |  |                               |   |                          |               |                |        |
| <b>Total - Total - Total</b>  |                              |                            |   |                                 |                               |  |                                   |   | <b>30 647</b>   |                              |  |  |                               |   | <b>12 847</b>            | <b>49 493</b> | <b>92 988</b>  |        |
| Industry - Industrie - Industria  |                              |                            |   |                                 |                               |  |                                   |   | 1 483   |                              |  |  |                               |   |                          | 16 351        |                | 17 834 |
| Transport - Transport - Transporte  |                              |                            |   |                                 |                               |  |                                   |   |   |                              |  |  |                               |   |                          |               |                |        |
| Commerce - Commerce - Comercial   |                              |                            |   |                                 |                               |  |                                   |   |   |                              |  |  |                               |   |                          |               |                |        |
| Residential - Résidentiel - Residencial   |                              |                            |   |                                 |                               |  |                                   |   |   |                              |  |  |                               |   |                          |               |                |        |
| Other - Autres - Otros  |                              |                            |   |                                 |                               |  |                                   |   |   |                              |  |  |                               |   |                          |               |                |        |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |   |                                 |                               |  |                                   |   |   |                              |  |  |                               |   |                          |               |                |        |
| <b>Total - Total - Total</b>  | <b>49 133</b>                |                            |   | <b>4</b>                        |                               |  |                                   |   | <b>31 003</b>   |                              |  |  |                               |   | <b>12 847</b>            |               | <b>92 988</b>  |        |
| Electricity - Électricité - Electrica   | 49 133                       |                            |   | 4                               |                               |  |                                   |   | 356   |                              |  |  |                               |   |                          |               | 49 493         |        |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |                               |  |                                   |   |   |                              |  |  |                               |   |                          |               | 43 495         |        |
| Direct use - Utilisation directe - Uso directo  |                              |                            |   |                                 |                               |  |                                   |   |   |                              |  |  |                               |   |                          |               |                |        |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |   |                                 |                               |  |                                   |   |   |                              |  |  |                               |   |                          |               |                |        |
| Electricity - Électricité - Electrica (in/en GWh)   | 27 603                       |                            |   | 2                               |                               |  |                                   |   | 200   |                              |  |  |                               |   |                          |               | 27 805         |        |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |   |                                 |                               |  |                                   |   |   |                              |  |  |                               |   |                          |               |                |        |

## Argentina

## Argentina

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Éolica | Solar - Solaire - Solar                        |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                                 |                             | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total           |
|---|------------------------------|----------------------------|--|---------------------------------|--|-----------------------------------|---|---|---------------------------------|-----------------------------|--|-------------------------------|---|--------------------------|-----------------|
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás |  |                               |   |                          |                 |
| <b>Primary energy - Énergie primaire - Energía primaaria</b>  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |                 |
| Production - Production - Generación  | 82 006                       | 51 005                     | 10 590   |                                 |  |                                   |   | 94 572  | 95 735                          | 5 082                       |  |                               | 13 562                                  |                          | <b>338 988</b>  |
| Imports - Importations - Importaciones  |                              |                            |  |                                 |  |                                   |   | - 46 072  |                                 |                             |  |                               | - 33                                    |                          | <b>13 562</b>   |
| Exports - Exportations - Exportaciones  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          | <b>- 46 105</b> |
| Stock - Stocks - Inventario (+/-)   |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |                 |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>82 006</b>                | <b>51 005</b>              | <b>10 590</b>                                  |                                 |  |                                   |   | <b>94 572</b>   | <b>49 663</b>                   | <b>5 082</b>                |  |                               | <b>13 529</b>                           |                          | <b>306 445</b>  |
| <i>Differences - écarts - Diferencias</i>   |                              |                            |  |                                 |  |                                   |   | 0   | 839                             |                             |  |                               | - 1                                     |                          | <b>837</b>      |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |                 |
| Electricity - Électricité - Electrica   | - 82 006                     | - 51 005                   | - 10 590                                       |                                 |  |                                   |   | - 51 159  |                                 | - 5 082                     |  |                               | 144 233                                 |                          | <b>- 55 607</b> |
| CHP - Cogénération - Cogeneración   |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               | 8 427                                   |                          | <b>8 427</b>    |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          | <b>- 4 519</b>  |
| Charcoal - Charbon - Carbón   |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |                 |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |                 |
| Other - Autres - Otras  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          | <b>- 4 424</b>  |
| Own use - Consomm. propre - Uso propio  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          | <b>- 31 388</b> |
| Distribution - Distribution - Distribución  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |                 |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |                 |
| Total - Total - Total   |                              |                            |  |                                 |  |                                   |   | 29 447  | 50 501                          |                             |  |                               | 9 446                                   | 130 730                  | <b>220 124</b>  |
| Industry - Industrie - Industria  |                              |                            |  |                                 |  |                                   |   | 24 075  |                                 |                             |  |                               | 45 767                                  |                          | <b>69 842</b>   |
| Transport - Transport - Transporte  |                              |                            |  |                                 |  |                                   |   |   | 50 501                          |                             |  |                               | 270                                     |                          | <b>50 772</b>   |
| Commerce - Commerce - Comercial   |                              |                            |  |                                 |  |                                   |   | 1 791   |                                 |                             |  |                               | 3 778                                   | 33 402                   | <b>38 971</b>   |
| Residential - Résidentiel - Residencial   |                              |                            |  |                                 |  |                                   |   | 3 581   |                                 |                             |  |                               | 5 667                                   | 49 983                   | <b>59 232</b>   |
| Other - Autres - Otros  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               | 1 308                                   |                          | <b>1 308</b>    |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |                 |
| Total - Total - Total   | 70 225                       | 43 678                     | 9 068  |                                 |  |                                   |   | 35 900  | 50 501                          | 1 305                       |  |                               | 9 446                                   |                          | <b>220 124</b>  |
| Electricity - Électricité - Electrica   | 70 225                       | 43 678                     | 9 068  |                                 |  |                                   |   | 6 453   |                                 | 1 305                       |  |                               |   |                          | <b>130 730</b>  |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |  |                                   |   | 29 447  | 50 501                          |                             |  |                               | 9 446                                   |                          | <b>89 394</b>   |
| Direct use - Utilisation directe - Uso directo  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |                 |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |                 |
| Electricity - Électricité - Electrica (in/en GWh)   | 22 779                       | 14 168                     | 2 942  |                                 |  |                                   |   | 2 093   |                                 | 423                         |  |                               |   |                          | <b>42 406</b>   |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |                 |

| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Éolica | Solar - Solaire - Solar                        |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                                 |                             | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total           |               |
|---|------------------------------|----------------------------|--|---------------------------------|--|-----------------------------------|---|---|---------------------------------|-----------------------------|--|-------------------------------|---|--------------------------|-----------------|---------------|
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás |  |                               |   |                          |                 |               |
| <b>Primary energy - Énergie primaire - Energía primaaria</b>  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |                 |               |
| Production - Production - Generación  | 70 767                       | 46 584                     | 7 934  |                                 |  |                                   |   | 98 923  | 85 550                          | 4 603                       |  |                               | 5 585                                   |                          | <b>314 361</b>  |               |
| Imports - Importations - Importaciones  |                              |                            |  |                                 |  |                                   |   | - 47 276  |                                 |                             |  |                               | - 3 387                                 |                          | <b>5 585</b>    |               |
| Exports - Exportations - Exportaciones  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          | <b>- 50 663</b> |               |
| Stock - Stocks - Inventario (+/-)   |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |                 |               |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>70 767</b>                | <b>46 584</b>              | <b>7 934</b>                                   |                                 |  |                                   |   | <b>98 923</b>   | <b>38 275</b>                   | <b>4 603</b>                |  |                               | <b>2 198</b>                            |                          | <b>269 283</b>  |               |
| <i>Differences - écarts - Diferencias</i>   |                              |                            |  |                                 |  |                                   |   | 0   | - 547                           |                             |  |                               | - 0                                     | 1                        | <b>- 550</b>    |               |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |                 |               |
| Electricity - Électricité - Electrica   | - 70 767                     | - 46 584                   | - 7 934  |                                 |  |                                   |   | - 38 557  |                                 | - 4 603                     |  |                               | 125 917                                 |                          | <b>- 42 527</b> |               |
| CHP - Cogénération - Cogeneración   |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               | 8 394                                   |                          | <b>8 394</b>    |               |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |  |                                   |   | - 17 874  |                                 |                             |  |                               | 12 090                                  |                          | <b>- 5 784</b>  |               |
| Charcoal - Charbon - Carbón   |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |                 |               |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |                 |               |
| Other - Autres - Otras  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               | - 3 749                                 |                          | <b>- 3 749</b>  |               |
| Own use - Consomm. propre - Uso propio  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               | - 19 641                                |                          | <b>- 19 641</b> |               |
| Distribution - Distribution - Distribución  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |                 |               |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |                 |               |
| Total - Total - Total   |                              |                            |  |                                 |  |                                   |   | 42 488  | 37 728                          |                             |  |                               | 12 090                                  | 113 556                  | <b>205 862</b>  |               |
| Industry - Industrie - Industria  |                              |                            |  |                                 |  |                                   |   | 37 073  |                                 | 37 728                      |  |                               |   | 41 226                   |                 | <b>78 299</b> |
| Transport - Transport - Transporte  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               | 431                                     |                          | <b>38 159</b>   |               |
| Commerce - Commerce - Comercial   |                              |                            |  |                                 |  |                                   |   | 1 805   |                                 |                             |  |                               | 4 836                                   | 29 093                   |                 | <b>35 734</b> |
| Residential - Résidentiel - Residencial   |                              |                            |  |                                 |  |                                   |   | 3 610   |                                 |                             |  |                               | 7 254                                   | 42 190                   |                 | <b>53 054</b> |
| Other - Autres - Otros  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               | 617                                     |                          | <b>617</b>      |               |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |                 |               |
| Total - Total - Total   | 59 831                       | 39 385                     | 6 708  |                                 |  |                                   |   | 48 952  | 37 728                          | 1 168                       |  |                               | 12 090                                  |                          | <b>205 862</b>  |               |
| Electricity - Électricité - Electrica   | 59 831                       | 39 385                     | 6 708  |                                 |  |                                   |   | 6 464   |                                 | 1 168                       |  |                               |   |                          | <b>113 556</b>  |               |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |  |                                   |   | 42 488  | 37 728                          |                             |  |                               | 12 090                                  |                          | <b>92 306</b>   |               |
| Direct use - Utilisation directe - Uso directo  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |                 |               |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |                 |               |
| Electricity - Électricité - Electrica (in/en GWh)   | 19 657                       | 12 940                     | 2 204  |                                 |  |                                   |   | 2 124   |                                 | 384                         |  |                               |   |                          | <b>37 309</b>   |               |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |                 |               |

## Armenia

## Armenia

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                                      |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                             |  | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total |                |
|---|------------------------------|----------------------------|--|---------------------------------|-------------------------------|--|-----------------------------------|---|---|-----------------------------|--|--|-------------------------------|---|--------------------------|-------|----------------|
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica               | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás |  |  |                               |   |                          |       |                |
|   |                              |                            | <b>Primary energy - Énergie primaire - Energía primaaria</b> |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |       |                |
| Production - Production - Generación  | 10 246                       | 6                          | 1 885  | 703                             |                               |  |                                   |   | 4 589   |                             |  |  |                               | 18                                      | 163                      |       | <b>17 430</b>  |
| Imports - Importations - Importaciones  |                              |                            |  |                                 |                               |  |                                   |   | 595   |                             |  |  |                               | - 3                                     | - 2 075                  |       | <b>776</b>     |
| Exports - Exportations - Exportaciones  |                              |                            |  |                                 |                               |  |                                   |   | - 17  |                             |  |  |                               |   |                          |       | <b>- 2 095</b> |
| Stock - Stocks - Inventario (+/-)   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |       |                |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>10 246</b>                | <b>6</b>                   | <b>1 885</b>   | <b>703</b>                      |                               |  |                                   |   | <b>5 167</b>  |                             |  |  |                               | <b>15</b>                               | <b>- 1 912</b>           |       | <b>16 111</b>  |
| Differences - Ecarts - Diferencias  |                              |                            |  |                                 |                               |  |                                   |   | - 4   |                             |  |  |                               |   |                          |       | <b>- 4</b>     |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |       |                |
| Electricity - Électricité - Electrica   | - 10 246                     | - 6                        | - 1 885  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   | 12 137                   |       |                |
| CHP - Cogénération - Cogeneración   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |       |                |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |       |                |
| Charcoal - Charbon - Carbón   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |       |                |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |       |                |
| Other - Autres - Otras  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |       |                |
| Own use - Consomm. propre - Uso propio  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |       |                |
| Distribution - Distribution - Distribución  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |       |                |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |       |                |
| Total - Total - Total   |                              |                            |  | 703                             |                               |  |                                   |   | 5 163   |                             |  |  |                               | 15                                      | 8 881                    |       | <b>14 762</b>  |
| Industry - Industrie - Industria  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   | 2 424                    |       | <b>2 424</b>   |
| Transport - Transport - Transporte  |                              |                            |  | 352                             |                               |  |                                   |   |   |                             |  |  |                               |   | 178                      |       | <b>178</b>     |
| Commerce - Commerce - Comercial   |                              |                            |  | 352                             |                               |  |                                   |   |   |                             |  |  |                               |   | 3 246                    |       | <b>3 702</b>   |
| Residential - Résidentiel - Residencial   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   | 2 852                    |       | <b>8 277</b>   |
| Other - Autres - Otros  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   | 181                      |       | <b>181</b>     |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |       |                |
| <b>Total - Total - Total</b>  | <b>7 497</b>                 | <b>5</b>                   | <b>1 379</b>   | <b>703</b>                      |                               |  |                                   |   | <b>5 163</b>  |                             |  |  |                               | <b>15</b>                               |                          |       | <b>14 762</b>  |
| Electricity - Électricité - Electrica   | 7 497                        | 5                          | 1 379  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |       | <b>8 881</b>   |
| Heat - Chaleur - Calor  |                              |                            |  | 703                             |                               |  |                                   |   |   |                             |  |  |                               |   |                          |       | <b>5 881</b>   |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |       |                |
| Electricity - Électricité - Electrica (in/en GWh)   | 2 846                        | 2                          | 524  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |       | <b>3 372</b>   |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |       |                |
| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                                      |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                             |  | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total |                |
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica               | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás |  |  |                               |   |                          |       |                |
|   |                              |                            | <b>Primary energy - Énergie primaire - Energía primaaria</b> |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |       |                |
| Production - Production - Generación  | 7 926                        | 5                          | 589  | 649                             |                               |  |                                   |   | 4 664   |                             |  |  |                               |   |                          |       | <b>13 833</b>  |
| Imports - Importations - Importaciones  |                              |                            |  |                                 |                               |  |                                   |   | 519   |                             |  |  |                               |   |                          |       | <b>950</b>     |
| Exports - Exportations - Exportaciones  |                              |                            |  |                                 |                               |  |                                   |   | - 17  |                             |  |  |                               |   |                          |       | <b>- 1112</b>  |
| Stock - Stocks - Inventario (+/-)   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |       |                |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>7 926</b>                 | <b>5</b>                   | <b>589</b>   | <b>649</b>                      |                               |  |                                   |   | <b>5 167</b>  |                             |  |  |                               | <b>24</b>                               | <b>- 689</b>             |       | <b>13 671</b>  |
| Differences - Ecarts - Diferencias  |                              |                            |  |                                 |                               |  |                                   |   | - 4   |                             |  |  |                               |   |                          |       | <b>- 4</b>     |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |       |                |
| Electricity - Électricité - Electrica   | - 7 926                      | - 5                        | - 589  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   | 8 520                    |       |                |
| CHP - Cogénération - Cogeneración   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |       |                |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |       |                |
| Charcoal - Charbon - Carbón   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |       |                |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |       |                |
| Other - Autres - Otras  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |       |                |
| Own use - Consomm. propre - Uso propio  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |       |                |
| Distribution - Distribution - Distribución  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |       |                |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |       |                |
| Total - Total - Total   |                              |                            |  | 649                             |                               |  |                                   |   | 5 163   |                             |  |  |                               | 24                                      | 6 831                    |       | <b>12 666</b>  |
| Industry - Industrie - Industria  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   | 1957                     |       | <b>1957</b>    |
| Transport - Transport - Transporte  |                              |                            |  | 324                             |                               |  |                                   |   |   |                             |  |  |                               |   | 104                      |       | <b>104</b>     |
| Commerce - Commerce - Comercial   |                              |                            |  | 324                             |                               |  |                                   |   |   |                             |  |  |                               |   | 2 416                    |       | <b>2 416</b>   |
| Residential - Résidentiel - Residencial   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   | 2 311                    |       | <b>2 311</b>   |
| Other - Autres - Otros  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   | 44                       |       | <b>44</b>      |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |       |                |
| <b>Total - Total - Total</b>  | <b>6 355</b>                 | <b>4</b>                   | <b>472</b>   | <b>649</b>                      |                               |  |                                   |   | <b>5 163</b>  |                             |  |  |                               | <b>24</b>                               |                          |       | <b>12 666</b>  |
| Electricity - Électricité - Electrica   | 6 355                        | 4                          | 472  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |       | <b>6 831</b>   |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |       |                |
| Direct use - Utilisation directe - Uso directo  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |       | <b>5 836</b>   |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |       |                |
| Electricity - Électricité - Electrica (in/en GWh)   | 2 202                        | 2                          | 164  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |       | <b>2 367</b>   |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |       |                |

## Australia

## Australia

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                              |                                 | Geothermal<br>Géothermique<br>Geotérmica             | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios   |                                 |                             | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total          |
|---|------------------------------|----------------------------|--|---------------------------------|--|-----------------------------------|---|---|---------------------------------|-----------------------------|--|-------------------------------|---|--------------------------|----------------|
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica       | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás |  |                               |   |                          |                |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaria |                                 | Primary energy - Énergie primaire - Energía primaria |                                   |   |   |                                 |                             |  |                               |   |                          |                |
| Production - Production - Generación  | 58 669                       | 104 789                    | 124 855  | 21 385                          |  |                                   |   | 175 989   | 4 004                           | 18 594                      |  | 855                           |   |                          | 508 285        |
| Imports - Importations - Importaciones  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             | - 0  |                               |   |                          | 855            |
| Exports - Exportations - Exportaciones  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          | - 0            |
| Stock - Stocks - Inventario (+/-)   |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |                |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>58 669</b>                | <b>104 789</b>             | <b>124 855</b>                                       | <b>21 385</b>                   |  |                                   |   | <b>175 989</b>  | <b>4 004</b>                    | <b>18 594</b>               |  | <b>855</b>                    |   |                          | <b>509 140</b> |
| Differences - Ecarts - Diferencias  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          | 1              |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |                                 |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                                 |                             |  |                               |   |                          |                |
| Electricity - Électricité - Electrica   | - 58 669                     | - 104 789                  | - 124 855  | - 57                            |  |                                   |   | - 5 558   |                                 | - II 364                    |  |                               |   |                          | - 12 339       |
| CHP - Cogénération - Cogeneración   |                              |                            |  |                                 |  |                                   |   | - 21 380  |                                 | - 5 085                     |  |                               |   |                          | - 19 603       |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |  |                                   |   | - 1 633   |                                 |                             |  |                               |   |                          | - 894          |
| Charcoal - Charbon - Carbón   |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |                |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |                |
| Other - Autres - Otras  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |                |
| Own use - Consomm. propre - Uso propio  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |                |
| Distribution - Distribution - Distribución  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |                |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |                                 |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                                 |                             |  |                               |   |                          |                |
| <b>Total - Total - Total</b>  |                              |                            |  | <b>21 328</b>                   |  |                                   |   | <b>147 418</b>  | <b>4 004</b>                    | <b>2 145</b>                |  | <b>1 594</b>                  | <b>243 845</b>                          |                          | <b>420 334</b> |
| Industry - Industrie - Industria  |                              |                            |  |                                 |  |                                   |   | 99 596  |                                 | 1 275                       |  |                               |   |                          | 187 692        |
| Transport - Transport - Transporte  |                              |                            |  | 557                             |  |                                   |   |   | 4 004                           |                             |  |                               |   |                          | 11 452         |
| Commerce - Commerce - Comercial   |                              |                            |  | 20 771                          |  |                                   |   |   |                                 | 870                         |  |                               |   |                          | 72 731         |
| Residential - Résidentiel - Residencial   |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          | 146 511        |
| Other - Autres - Otros  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          | 1948           |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |                                 |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                                 |                             |  |                               |   |                          |                |
| <b>Total - Total - Total</b>  | <b>47 717</b>                | <b>85 227</b>              | <b>101 547</b>                                       | <b>21 343</b>                   |  |                                   |   | <b>152 738</b>  | <b>4 004</b>                    | <b>6 165</b>                |  | <b>1 594</b>                  | <b>243 845</b>                          |                          | <b>420 334</b> |
| Electricity - Électricité - Electrica   | 47 717                       | 85 227                     | 101 547  | 15                              |  |                                   |   | 5 320   |                                 | 4 020                       |  |                               |   |                          | 243 845        |
| Heat - Chaleur - Calor  |                              |                            |  | 21 328                          |  |                                   |   |   | 4 004                           | 2 145                       |  |                               |   |                          | 176 489        |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |                                 |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                                 |                             |  |                               |   |                          |                |
| Electricity - Électricité - Electrica (in/en GWh)   | 16 297                       | 29 108                     | 34 682   | 5                               |  |                                   |   | 1 817   |                                 | 1 373                       |  |                               |   |                          | 83 282         |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |                |
| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                              |                                 | Geothermal<br>Géothermique<br>Geotérmica             | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios   |                                 |                             | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total          |
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica       | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás |  |                               |   |                          |                |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaria |                                 | Primary energy - Énergie primaire - Energía primaria |                                   |   |   |                                 |                             |  |                               |   |                          |                |
| Production - Production - Generación  | 53 140                       | 88 326                     | 99 763   | 19 731                          |  |                                   |   | 178 054   | 3 669                           | 17 984                      |  | 702                           |   |                          | 460 667        |
| Imports - Importations - Importaciones  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             | - 9  |                               |   |                          | 702            |
| Exports - Exportations - Exportaciones  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          | - 9            |
| Stock - Stocks - Inventario (+/-)   |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |                |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>53 140</b>                | <b>88 326</b>              | <b>99 763</b>  | <b>19 731</b>                   |  |                                   |   | <b>178 054</b>  | <b>3 669</b>                    | <b>17 984</b>               |  | <b>693</b>                    |   |                          | <b>461 360</b> |
| Differences - Ecarts - Diferencias  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          | - 383          |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |                                 |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                                 |                             |  |                               |   |                          |                |
| Electricity - Électricité - Electrica   | - 53 140                     | - 88 326                   | - 99 763   | - 56                            |  |                                   |   | - 7 539   |                                 | - 11 572                    |  |                               |   |                          | - 13 825       |
| CHP - Cogénération - Cogeneración   |                              |                            |  |                                 |  |                                   |   | - 20 481  |                                 | - 3 844                     |  |                               |   |                          | - 17 600       |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |  |                                   |   | - 1 633   |                                 |                             |  |                               |   |                          | - 894          |
| Charcoal - Charbon - Carbón   |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |                |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |                |
| Other - Autres - Otras  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |                |
| Own use - Consomm. propre - Uso propio  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |                |
| Distribution - Distribution - Distribución  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |                |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |                                 |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                                 |                             |  |                               |   |                          |                |
| <b>Total - Total - Total</b>  |                              |                            |  | <b>19 675</b>                   |  |                                   |   | <b>148 401</b>  | <b>3 669</b>                    | <b>2 184</b>                |  | <b>1 432</b>                  | <b>206 388</b>                          |                          | <b>381 749</b> |
| Industry - Industrie - Industria  |                              |                            |  |                                 |  |                                   |   | 101 550   |                                 | 1 399                       |  |                               |   |                          | 177 901        |
| Transport - Transport - Transporte  |                              |                            |  | 444                             |  |                                   |   |   | 3 669                           |                             |  |                               |   |                          | 9 863          |
| Commerce - Commerce - Comercial   |                              |                            |  | 19 231                          |  |                                   |   |   |                                 | 785                         |  |                               |   |                          | 62 119         |
| Residential - Résidentiel - Residencial   |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          | 129 890        |
| Other - Autres - Otros  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          | 1977           |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |                                 |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                                 |                             |  |                               |   |                          |                |
| <b>Total - Total - Total</b>  | <b>43 299</b>                | <b>71 969</b>              | <b>81 288</b>  | <b>19 690</b>                   |  |                                   |   | <b>154 247</b>  | <b>3 669</b>                    | <b>6 156</b>                |  | <b>1 432</b>                  | <b>206 388</b>                          |                          | <b>381 749</b> |
| Electricity - Électricité - Electrica   | 43 299                       | 71 969                     | 81 288   | 15                              |  |                                   |   | 5 846   |                                 | 3 972                       |  |                               |   |                          | 206 388        |
| Heat - Chaleur - Calor  |                              |                            |  | 19 675                          |  |                                   |   |   | 3 669                           | 2 184                       |  |                               |   |                          | 175 361        |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |                                 |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                                 |                             |  |                               |   |                          |                |
| Electricity - Électricité - Electrica (in/en GWh)   | 14 761                       | 24 535                     | 27 712   | 5                               |  |                                   |   | 1 993   |                                 | 1 354                       |  |                               |   |                          | 70 360         |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |                |

## Austria

## Austria

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                               |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios   |                              |          | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total |
|---|------------------------------|----------------------------|---|---------------------------------|-------------------------------|--|-----------------------------------|---|---|------------------------------|----------|--|-------------------------------|---|--------------------------|-------|
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Bioegas - Biogaz<br>- Biogás |          |  |                               |   |                          |       |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaaria |                                 |                               |  |                                   |   | Primary energy - Énergie primaire - Energía primaaria   |                              |          |  |                               |   |                          |       |
| Production - Production - Generación  | 124 939                      | 26 082                     | 13 650  | 7 423                           | 1 479                         | 20 249                                   | 11 857                            | 203 540                                     | 17 736  | 7 710                        | 4 947    | 368  | 74 993                        |   | 434 666                  |       |
| Imports - Importations - Importaciones  |                              |                            |   |                                 |                               | 4 317                                    |                                   | 17 235                                      |   |                              | - 10 715 | - 39   | - 52 164                      |   | 101 860                  |       |
| Exports - Exportations - Exportaciones  |                              |                            |   |                                 |                               | - 2 467                                  |                                   | - 17 140                                    |   |                              | - 726    |  |                               |   | - 82 526                 |       |
| Stock - Stocks - Inventario (+/-)   |                              |                            |   |                                 |                               |  |                                   | 188   |   |                              |          |  |                               |   | - 538                    |       |
| Supply - Approvisionnement - Oferta   | 124 939                      | 26 082                     | 13 650  | 7 423                           | 1 479                         | 20 249                                   | 11 857                            | 205 389                                     | 18 019  | 7 710                        | 6 494    | 329  | 22 829                        |   | 453 463                  |       |
| Differences - Ecarts - Diferencias  |                              |                            |   |                                 |                               |  |                                   |   |   |                              | 0        |  | - 16                          |   | - 16                     |       |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |   |                                 |                               |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                              |          |  |                               |   |                          |       |
| Electricity - Électricité - Electrica   | - 124 939                    | - 26 082                   | - 13 650  | - 0                             |                               | - 3 908                                  |                                   | - 7 618                                     |   |                              | - 5 366  |  |                               |   | - 11 449                 |       |
| CHP - Cogénération - Cogeneración   |                              |                            |   | - 107                           |                               | - 1119                                   |                                   | - 5 244                                     |   |                              | - 551    |  |                               |   | - 7 549                  |       |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |                               | - 796                                    |                                   | - 28 890                                    |   |                              | - 45     |  |                               |   | - 4 885                  |       |
| Charcoal - Charbon - Carbón   |                              |                            |   |                                 |                               |  |                                   | - 81  |   |                              |          |  |                               |   | - 48                     |       |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |   |                                 |                               |  |                                   | - 24 200                                    |   |                              |          |  |                               |   |                          |       |
| Other - Autres - Otras  |                              |                            |   |                                 |                               |  |                                   |   |   |                              |          |  |                               |   | - 64                     |       |
| Own use - Consomm. propre - Uso propio  |                              |                            |   |                                 |                               |  |                                   |   |   |                              |          |  |                               |   | - 28 348                 |       |
| Distribution - Distribution - Distribución  |                              |                            |   |                                 |                               |  |                                   |   |   |                              |          |  |                               |   | - 14 931                 |       |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |   |                                 |                               |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                              |          |  |                               |   |                          |       |
| Total - Total - Total   |                              |                            |   | 7 316                           | 360                           | 20 014                                   | 1 910                             | 113 462                                     | 18 019  | 1 749                        | 17 617   | 362  | 167 494                       | 38 076                                  | 386 378                  |       |
| Industry - Industrie - Industria  |                              |                            |   |                                 |                               | 404                                      |                                   | 52 788                                      | 831   | 1 288                        | 443      |  | 72 286                        | 5 546                                   | 135 496                  |       |
| Transport - Transport - Transporte  |                              |                            |   | 2 973                           |                               |  |                                   | 16 863                                      |   | 15                           |          |  | 8 846                         |   | 25 724                   |       |
| Commerce - Commerce - Comercial   |                              |                            |   | 4 286                           |                               | 8 065                                    |                                   | 48  |   | 4                            |          |  | 1 594                         |   | 60 881                   |       |
| Residential - Résidentiel - Residencial   |                              |                            |   | 57                              |                               | 11 391                                   |                                   | 58 555                                      |   | - 1                          |          |  | 217                           | 31 440                                  | 14 898                   |       |
| Other - Autres - Otros  |                              |                            |   |                                 |                               | 155                                      |                                   | 764   | 277   | 443                          | 5 311    |  | 51 566                        | 17 393                                  | 153 676                  |       |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |   |                                 |                               |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                              |          |  |                               |   |                          |       |
| Total - Total - Total   | 115 262                      | 24 062                     | 12 593  | 7 399                           | 841                           | 20 014                                   | 6 239                             | 160 053                                     | 18 019  | 3 874                        | 17 661   | 362  |                               |   | 386 378                  |       |
| Electricity - Électricité - Electrica   | 115 262                      | 24 062                     | 12 593  | 0                               |                               | 1 252                                    |                                   | 12 354                                      |   | 1 971                        |          |  |                               |   | 167 494                  |       |
| Heat - Chaleur - Calor  |                              |                            |   | 83                              |                               | 481                                      |                                   | 3 077                                       |   | 154                          |          |  | 44                            |   | 38 076                   |       |
| Direct use - Utilisation directe - Uso directo  |                              |                            |   | 7 316                           |                               | 360                                      |                                   | 113 462                                     | 18 019  | 1 749                        | 17 617   | 362  |                               |   | 180 808                  |       |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |   |                                 |                               |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                              |          |  |                               |   |                          |       |
| Electricity - Électricité - Electrica (in/en GWh)   | 34 705                       | 7 245                      | 3 792   | 0                               |                               | 377                                      |                                   | 3 720                                       |   | 594                          |          |  |                               |   | 50 432                   |       |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            | 97  | 560                             |                               | 3 579                                    |                                   | 39 821                                      |   | 179                          |          | 52   |                               |   | 44 286                   |       |
| 2021 (In/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                               |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios   |                              |          | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total |
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Bioegas - Biogaz<br>- Biogás |          |  |                               |   |                          |       |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaaria |                                 |                               |  |                                   |   | Primary energy - Énergie primaire - Energía primaaria   |                              |          |  |                               |   |                          |       |
| Production - Production - Generación  | 139 505                      | 24 264                     | 10 017  | 7 387                           | 1 534                         | 18 424                                   | 11 563                            | 218 658                                     | 15 957  | 6 743                        | 6 841    | 478  | 70 955                        |   | 454 052                  |       |
| Imports - Importations - Importaciones  |                              |                            |   |                                 |                               | 4 160                                    |                                   | 21 627                                      |   |                              | - 14 511 |  | - 50 709                      |   | 104 061                  |       |
| Exports - Exportations - Exportaciones  |                              |                            |   |                                 |                               | - 1194                                   |                                   | - 19 292                                    |   |                              | 1 203    |  |                               |   | - 85 746                 |       |
| Stock - Stocks - Inventario (+/-)   |                              |                            |   |                                 |                               |  |                                   | 353   |   |                              |          |  |                               |   | 1 556                    |       |
| Supply - Approvisionnement - Oferta   | 139 505                      | 24 264                     | 10 017  | 7 387                           | 1 534                         | 18 424                                   | 11 563                            | 221 624                                     | 18 644  | 6 743                        | 6 467    | 439  | 20 246                        |   | 473 924                  |       |
| Differences - Ecarts - Diferencias  |                              |                            |   |                                 |                               | - 152                                    |                                   | 2   |   |                              |          |  |                               |   | - 167                    |       |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |   |                                 |                               |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                              |          |  |                               |   |                          |       |
| Electricity - Électricité - Electrica   | - 139 505                    | - 24 264                   | - 10 017  | - 1                             |                               | - 3 847                                  |                                   | - 6 362                                     |   | - 1                          | - 4 622  |  |                               |   | - 9 486                  |       |
| CHP - Cogénération - Cogeneración   |                              |                            |   | - 108                           |                               | - 1 104                                  |                                   | - 5 228                                     |   | - 544                        |          |  |                               |   | - 7 382                  |       |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |                               | - 490                                    |                                   | - 31 025                                    |   | - 56                         |          |  |                               |   | - 5 513                  |       |
| Charcoal - Charbon - Carbón   |                              |                            |   |                                 |                               |  |                                   | - 31 854                                    |   | - 101                        |          |  |                               |   | - 60                     |       |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |   |                                 |                               |  |                                   | - 104                                       |   |                              |          |  |                               |   |                          |       |
| Other - Autres - Otras  |                              |                            |   |                                 |                               |  |                                   | - 26 635                                    |   |                              |          |  |                               |   |                          |       |
| Own use - Consomm. propre - Uso propio  |                              |                            |   |                                 |                               |  |                                   |   |   |                              |          |  |                               |   | - 124                    |       |
| Distribution - Distribution - Distribución  |                              |                            |   |                                 |                               |  |                                   |   |   |                              |          |  |                               |   | - 28 384                 |       |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |   |                                 |                               |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                              |          |  |                               |   |                          |       |
| Total - Total - Total   |                              |                            |   | 7 279                           | 429                           | 17 783                                   | 1 745                             | 125 643                                     | 18 641  | 1 521                        | 20 068   | 483  | 172 994                       | 40 851                                  | 407 437                  |       |
| Industry - Industrie - Industria  |                              |                            |   |                                 |                               | 347                                      |                                   | 47 825                                      | 661   | 1 062                        | 504      |  | 72 057                        | 5 320                                   | 129 521                  |       |
| Transport - Transport - Transporte  |                              |                            |   | 2 204                           |                               | 5 226                                    |                                   | 17 654                                      | 48  | 2                            | 1 815    |  | 193                           | 8 837                                   | 26 506                   |       |
| Commerce - Commerce - Comercial   |                              |                            |   | 5 008                           |                               | 12 047                                   |                                   | 74 403                                      | 1415  | 277                          | 442      |  | 11 698                        | 31 107                                  | 58 696                   |       |
| Residential - Résidentiel - Residencial   |                              |                            |   | 67                              |                               | 163                                      |                                   |   |   |                              |          |  | 6 051                         | 57 237                                  | 180 267                  |       |
| Other - Autres - Otros  |                              |                            |   |                                 |                               |  |                                   |   |   |                              |          |  |                               | 3 756                                   | 19 585                   |       |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |   |                                 |                               |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                              |          |  |                               |   |                          |       |
| Total - Total - Total   | 127 076                      | 22 102                     | 9 125   | 7 363                           | 903                           | 17 783                                   | 6 233                             | 173 950                                     | 18 642  | 3 665                        | 20 112   | 483  |                               |   | 407 437                  |       |
| Electricity - Électricité - Electrica   | 127 076                      | 22 102                     | 9 125   | 0                               |                               | 1 238                                    |                                   | 11 479                                      | 1   | 1 973                        |          |  |                               |   | 172 994                  |       |
| Heat - Chaleur - Calor  |                              |                            |   | 84                              |                               | 474                                      |                                   | 3 250                                       |   | 172                          |          |  |                               |   | 40 851                   |       |
| Direct use - Utilisation directe - Uso directo  |                              |                            |   | 7 279                           |                               | 429                                      |                                   | 17 783                                      | 1 745   | 125 643                      | 18 641   | 1 521  |                               |   | 193 592                  |       |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |   |                                 |                               |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                              |          |  |                               |   |                          |       |
| Electricity - Électricité - Electrica (in/en GWh)   | 38 751                       | 6 740                      | 2 783   | 0                               |                               | 377                                      |                                   | 3 500                                       | 0   | 602                          |          |  |                               |   | 52 754                   |       |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            | 97  | 552                             |                               | 3 781                                    |                                   | 42 845                                      |   | 200                          |          | 52   |                               |   | 47 526                   |       |

## Azerbaijan

## Azerbaijan

| 2022 (In/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                              |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primariares -<br>Biocombustibles primarios                                       |                             |  | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total        |
|---|------------------------------|----------------------------|--|---------------------------------|-------------------------------|--|-----------------------------------|---|---|-----------------------------|--|--|-------------------------------|---|--------------------------|--------------|
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica       | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás |  |  |                               |   |                          |              |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaria |                                 |                               |  |                                   |   | Primary energy - Énergie primaire - Energía primaria  |                             |  |  |                               |   |                          |              |
| Production - Production - Generación  | 5 745 o                      | 300 o                      | 219 o  |                                 |                               |  |                                   | o   | 3 093 o   | 668 o                       |  |  |                               | u                                       | 33                       | 10 025       |
| Imports - Importations - Importaciones  |                              |                            |  |                                 |                               |  |                                   |   |   | 27 o                        |  |  |                               | u                                       | - 723                    | 33           |
| Exports - Exportations - Exportaciones  |                              |                            |  |                                 |                               |  |                                   |   |   | 696                         |  |  |                               |   | - 27                     | 27           |
| Stock - Stocks - Inventario (+/-)   | 5 745                        | 300                        | 219  |                                 |                               |  |                                   |   | 3 093   |                             |  |  |                               |   | - 690                    | 9 363        |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>5 745</b>                 | <b>300</b>                 | <b>219</b>   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   | <b>- 4</b>               | <b>- 4</b>   |
| Differences - écarts - Diferencias  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |              |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |                                 |                               |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                             |  |  |                               |   |                          |              |
| Electricity - Électricité - Electrica   | - 5 745 o                    | - 300 o                    | - 219 o  |                                 |                               |  |                                   |   | - 3 093 o   |                             |  |  |                               |   | 7 003                    | - 2 354      |
| CHP - Cogénération - Cogeneración   |                              |                            |  |                                 |                               |  |                                   |   |   | - 13 e                      |  |  |                               |   |                          | - 4          |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               | 8 o                                     |                          |              |
| Charcoal - Charbon - Carbón   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   | - 897                    |              |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   | - 527                    | - 897        |
| Other - Autres - Otras  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          | - 527        |
| Own use - Consomm. propre - Uso propio  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |              |
| Distribution - Distribution - Distribución  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |              |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |                                 |                               |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                             |  |  |                               |   |                          |              |
| Total - Total - Total   |                              |                            |  |                                 |                               |  |                                   |   |   | 683                         |  |  |                               | 8                                       | 4 885                    | 5 577        |
| Industry - Industrie - Industria  |                              |                            |  |                                 |                               |  |                                   |   |   | 25 o                        |  |  |                               |   | 1 207                    | 1 232        |
| Transport - Transport - Transporte  |                              |                            |  |                                 |                               |  |                                   |   |   | 467 o                       |  |  |                               |   | 81                       | 81           |
| Commerce - Commerce - Comercial   |                              |                            |  |                                 |                               |  |                                   |   |   | 189 o                       |  |  |                               |   | 1 499                    | 1 974        |
| Residential - Résidentiel - Residencial   |                              |                            |  |                                 |                               |  |                                   |   |   | 2                           |  |  |                               |   | 1 584                    | 1 773        |
| Other - Autres - Otros  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   | 515                      | 517          |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |                                 |                               |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                             |  |  |                               |   |                          |              |
| Total - Total - Total   | 4 007                        | 209                        | 153  |                                 |                               |  |                                   |   | 516   | 683                         |  |  | 0                             | 8                                       | 4 885                    | 5 577        |
| Electricity - Électricité - Electrica   | 4 007                        | 209                        | 153  |                                 |                               |  |                                   |   | 516   |                             |  |  | 0                             |   |                          | 4 885        |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |                               |  |                                   |   |   | 683                         |  |  |                               | 8                                       |                          | 692          |
| Direct use - Utilisation directe - Uso directo  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |              |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |                                 |                               |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                             |  |  |                               |   |                          |              |
| Electricity - Électricité - Electrica (in/en GWh)   | 1 596                        | 83                         | 61   |                                 |                               |  |                                   |   | 205   |                             |  |  | 0                             |   |                          | 1 945        |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |              |
| 2021 (In/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                              |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primariares -<br>Biocombustibles primarios                                       |                             |  | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total        |
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica       | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás |  |  |                               |   |                          |              |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaria |                                 |                               |  |                                   |   | Primary energy - Énergie primaire - Energía primaria  |                             |  |  |                               |   |                          |              |
| Production - Production - Generación  | 4 598 o                      | 329 o                      | 199 o  |                                 |                               |  |                                   | 3 o   | 3 019 o   | 1 211 o                     |  |  |                               | 4 u                                     | 32                       | 9 359        |
| Imports - Importations - Importaciones  |                              |                            |  |                                 |                               |  |                                   |   |   | 76 o                        |  |  |                               | - 2 u                                   | - 349                    | 36           |
| Exports - Exportations - Exportaciones  |                              |                            |  |                                 |                               |  |                                   |   |   | 1 286                       |  |  |                               | 3                                       | - 318                    | - 351        |
| Stock - Stocks - Inventario (+/-)   | 4 598                        | 329                        | 199  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   | - 5                      | 76           |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>4 598</b>                 | <b>329</b>                 | <b>199</b>   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          | <b>9 119</b> |
| Differences - écarts - Diferencias  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |              |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |                                 |                               |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                             |  |  |                               |   |                          |              |
| Electricity - Électricité - Electrica   | - 4 598 o                    | - 329 o                    | - 199 o  |                                 |                               |  |                                   |   | - 3 019 o   |                             |  |  |                               |   | 5 822                    | - 2 323      |
| CHP - Cogénération - Cogeneración   |                              |                            |  |                                 |                               |  |                                   |   |   | - 6 o                       |  |  |                               |   |                          | - 2          |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               | 4 o                                     |                          |              |
| Charcoal - Charbon - Carbón   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   | - 795                    |              |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   | - 448                    | - 795        |
| Other - Autres - Otras  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          | - 448        |
| Own use - Consomm. propre - Uso propio  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |              |
| Distribution - Distribution - Distribución  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |              |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |                                 |                               |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                             |  |  |                               |   |                          |              |
| Total - Total - Total   |                              |                            |  |                                 |                               |  |                                   |   |   | 1 280                       |  |  | 7                             | 4 256                                   | 5 546                    |              |
| Industry - Industrie - Industria  |                              |                            |  |                                 |                               |  |                                   |   |   | 347 o                       |  |  |                               | 1 019                                   | 1 365                    |              |
| Transport - Transport - Transporte  |                              |                            |  |                                 |                               |  |                                   |   |   | 666 o                       |  |  |                               | 60                                      | 60                       |              |
| Commerce - Commerce - Comercial   |                              |                            |  |                                 |                               |  |                                   |   |   | 267 o                       |  |  |                               | 1 382                                   | 2 058                    |              |
| Residential - Résidentiel - Residencial   |                              |                            |  |                                 |                               |  |                                   |   |   | o                           |  |  |                               | 1 453                                   | 1 720                    |              |
| Other - Autres - Otros  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               | 342                                     | 342                      |              |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |                                 |                               |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                             |  |  |                               |   |                          |              |
| Total - Total - Total   | 3 361                        | 241                        | 145  |                                 |                               |  |                                   | 3   | 508   | 1 280                       |  |  | 0                             | 7                                       | 4 256                    | 5 546        |
| Electricity - Électricité - Electrica   | 3 361                        | 241                        | 145  |                                 |                               |  |                                   |   |   |                             |  |  | 0                             |   |                          | 4 256        |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  | 7                             |   |                          |              |
| Direct use - Utilisation directe - Uso directo  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  | 7                             |   |                          | 1 290        |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |                                 |                               |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                             |  |  |                               |   |                          |              |
| Electricity - Électricité - Electrica (in/en GWh)   | 1 277                        | 91                         | 55   |                                 |                               |  |                                   |   |   | 193                         |  |  | 0                             |   |                          | 1 617        |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |              |

## Bahrain

## Bahrain

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Édica | Solar - Solaire - Solar                        |                                 | Geothermal<br>Géothermique | Other RE<br>Autres ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                                 |                             | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Carbone<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total |
|---|------------------------------|---------------------------|--|---------------------------------|----------------------------|-----------------------|---|---|---------------------------------|-----------------------------|--|-------------------------------|---|--------------------------|-------|
|   |                              |                           | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica |                            |                       |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás |  |                               |   |                          |       |
| <b>Primary energy - Énergie primaire - Energía primaaria</b>  |                              |                           |  |                                 |                            |                       |   |   |                                 |                             |  |                               |   |                          |       |
| Production - Production - Generación  |                              |                           | 4  | 299                             |                            |                       |   |   |                                 |                             |  |                               |   | 3                        |       |
| Imports - Importations - Importaciones  |                              |                           |  |                                 |                            |                       |   |   |                                 |                             |  |                               |   |                          | 303   |
| Exports - Exportations - Exportaciones  |                              |                           |  |                                 |                            |                       |   |   |                                 |                             |  |                               |   |                          | 3     |
| Stock - Stocks - Inventario (+/-)   |                              |                           |  |                                 |                            |                       |   |   |                                 |                             |  |                               |   |                          |       |
| <b>Supply - Approvisionnement - Oferta</b>  |                              |                           | <b>4</b>                                       | <b>299</b>                      |                            |                       |   |   |                                 |                             |  |                               |   | <b>3</b>                 |       |
| Differences - Ecarts - Diferencias  |                              |                           |  |                                 |                            |                       |   |   |                                 |                             |  |                               |   | - 4                      |       |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                           |  |                                 |                            |                       |   |   |                                 |                             |  |                               |   |                          |       |
| Electricity - Électricité - Electrica   |                              |                           | - 4  | - 299                           |                            |                       |   |   |                                 |                             |  |                               |   | 303                      | - 0   |
| CHP - Cogénération - Cogeneración   |                              |                           |  |                                 |                            |                       |   |   |                                 |                             |  |                               |   |                          |       |
| Heat - Chaleur - Calor  |                              |                           |  |                                 |                            |                       |   |   |                                 |                             |  |                               |   |                          |       |
| Charcoal - Charbon - Carbón   |                              |                           |  |                                 |                            |                       |   |   |                                 |                             |  |                               |   |                          |       |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                           |  |                                 |                            |                       |   |   |                                 |                             |  |                               |   |                          |       |
| Other - Autres - Otras  |                              |                           |  |                                 |                            |                       |   |   |                                 |                             |  |                               |   |                          |       |
| Own use - Consomm. propre - Uso propio  |                              |                           |  |                                 |                            |                       |   |   |                                 |                             |  |                               |   |                          |       |
| Distribution - Distribution - Distribución  |                              |                           |  |                                 |                            |                       |   |   |                                 |                             |  |                               |   |                          |       |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                           |  |                                 |                            |                       |   |   |                                 |                             |  |                               |   |                          |       |
| <b>Total - Total - Total</b>  |                              |                           |  |                                 |                            |                       |   |   |                                 |                             |  |                               |   | <b>287</b>               |       |
| Industry - Industrie - Industria  |                              |                           |  |                                 |                            |                       |   |   |                                 |                             |  |                               |   | 141                      |       |
| Transport - Transport - Transporte  |                              |                           |  |                                 |                            |                       |   |   |                                 |                             |  |                               |   | 54                       |       |
| Commerce - Commerce - Comercial   |                              |                           |  |                                 |                            |                       |   |   |                                 |                             |  |                               |   | 91                       |       |
| Residential - Résidentiel - Residencial   |                              |                           |  |                                 |                            |                       |   |   |                                 |                             |  |                               |   | 1                        |       |
| Other - Autres - Otros  |                              |                           |  |                                 |                            |                       |   |   |                                 |                             |  |                               |   |                          |       |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                           |  |                                 |                            |                       |   |   |                                 |                             |  |                               |   |                          |       |
| <b>Total - Total - Total</b>  |                              |                           | <b>4</b>                                       | <b>282</b>                      |                            |                       |   |   |                                 |                             |  |                               |   | <b>287</b>               |       |
| Electricity - Électricité - Electrica   |                              |                           | 4  | 282                             |                            |                       |   |   |                                 |                             |  |                               |   |                          | 287   |
| Heat - Chaleur - Calor  |                              |                           |  |                                 |                            |                       |   |   |                                 |                             |  |                               |   |                          |       |
| Direct use - Utilisation directe - Uso directo  |                              |                           |  |                                 |                            |                       |   |   |                                 |                             |  |                               |   |                          |       |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                           |  |                                 |                            |                       |   |   |                                 |                             |  |                               |   |                          |       |
| Electricity - Électricité - Electrica (in/en GWh)   |                              |                           | 1  | 83                              |                            |                       |   |   |                                 |                             |  |                               |   |                          | 84    |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                           |  |                                 |                            |                       |   |   |                                 |                             |  |                               |   |                          |       |

| 2021 (In/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Édica | Solar - Solaire - Solar                        |                                 | Geothermal<br>Géothermique | Other RE<br>Autres ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                                 |                             | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Carbone<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total      |
|---|------------------------------|---------------------------|--|---------------------------------|----------------------------|-----------------------|---|---|---------------------------------|-----------------------------|--|-------------------------------|---|--------------------------|------------|
|   |                              |                           | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica |                            |                       |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás |  |                               |   |                          |            |
| <b>Primary energy - Énergie primaire - Energía primaaria</b>  |                              |                           |  |                                 |                            |                       |   |   |                                 |                             |  |                               |   |                          |            |
| Production - Production - Generación  |                              |                           | 4  | 140                             |                            |                       |   |   | 85                              |                             |  |                               |   |                          | 230        |
| Imports - Importations - Importaciones  |                              |                           |  |                                 |                            |                       |   |   | 9                               |                             |  |                               |   |                          | 193        |
| Exports - Exportations - Exportaciones  |                              |                           |  |                                 |                            |                       |   |   |                                 |                             |  |                               |   |                          | - 2        |
| Stock - Stocks - Inventario (+/-)   |                              |                           |  |                                 |                            |                       |   |   |                                 |                             |  |                               |   |                          |            |
| <b>Supply - Approvisionnement - Oferta</b>  |                              |                           | <b>4</b>                                       | <b>140</b>                      |                            |                       |   |   | <b>94</b>                       |                             |  |                               |   | <b>181</b>               |            |
| Differences - Ecarts - Diferencias  |                              |                           |  |                                 |                            |                       |   |   |                                 |                             |  |                               |   | <b>1</b>                 |            |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                           |  |                                 |                            |                       |   |   |                                 |                             |  |                               |   |                          |            |
| Electricity - Électricité - Electrica   |                              |                           | - 4  | - 140                           |                            |                       |   |   |                                 |                             |  |                               |   | 145                      | - 0        |
| CHP - Cogénération - Cogeneración   |                              |                           |  |                                 |                            |                       |   |   |                                 |                             |  |                               |   |                          |            |
| Heat - Chaleur - Calor  |                              |                           |  |                                 |                            |                       |   |   |                                 |                             |  |                               |   |                          |            |
| Charcoal - Charbon - Carbón   |                              |                           |  |                                 |                            |                       |   |   |                                 |                             |  |                               |   |                          |            |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                           |  |                                 |                            |                       |   |   |                                 |                             |  |                               |   |                          |            |
| Other - Autres - Otras  |                              |                           |  |                                 |                            |                       |   |   |                                 |                             |  |                               |   |                          |            |
| Own use - Consomm. propre - Uso propio  |                              |                           |  |                                 |                            |                       |   |   |                                 |                             |  |                               |   |                          |            |
| Distribution - Distribution - Distribución  |                              |                           |  |                                 |                            |                       |   |   |                                 |                             |  |                               |   |                          |            |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                           |  |                                 |                            |                       |   |   |                                 |                             |  |                               |   |                          |            |
| <b>Total - Total - Total</b>  |                              |                           |  |                                 |                            |                       |   |   | 12                              |                             |  |                               |   | <b>218</b>               |            |
| Industry - Industrie - Industria  |                              |                           |  |                                 |                            |                       |   |   |                                 |                             |  |                               |   | 136                      |            |
| Transport - Transport - Transporte  |                              |                           |  |                                 |                            |                       |   |   |                                 |                             |  |                               |   | 75                       |            |
| Commerce - Commerce - Comercial   |                              |                           |  |                                 |                            |                       |   |   |                                 |                             |  |                               |   |                          |            |
| Residential - Résidentiel - Residencial   |                              |                           |  |                                 |                            |                       |   |   | 6                               |                             |  |                               |   | 109                      |            |
| Other - Autres - Otros  |                              |                           |  |                                 |                            |                       |   |   | 6                               |                             |  |                               |   | 36                       |            |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                           |  |                                 |                            |                       |   |   | 12                              |                             |  |                               |   | <b>218</b>               |            |
| <b>Total - Total - Total</b>  |                              |                           | <b>4</b>                                       | <b>132</b>                      |                            |                       |   |   |                                 |                             |  |                               |   |                          | <b>366</b> |
| Electricity - Électricité - Electrica   |                              |                           | 4  | 132                             |                            |                       |   |   |                                 |                             |  |                               |   |                          | 136        |
| Heat - Chaleur - Calor  |                              |                           |  |                                 |                            |                       |   |   |                                 |                             |  |                               |   |                          |            |
| Direct use - Utilisation directe - Uso directo  |                              |                           |  |                                 |                            |                       |   |   |                                 |                             |  |                               |   |                          |            |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                           |  |                                 |                            |                       |   |   |                                 |                             |  |                               |   |                          |            |
| Electricity - Électricité - Electrica (in/en GWh)   |                              |                           | 1  | 39                              |                            |                       |   |   |                                 |                             |  |                               |   |                          | 40         |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                           |  |                                 |                            |                       |   |   |                                 |                             |  |                               |   |                          |            |

## Bangladesh

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                               |                                 | Geothermal<br>Géothermique<br>Geotérmica              | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios   |                                 |                             | Pellets/briq.<br>Granules/briq.<br>Pellets/briq.                            | Charcoal<br>Carbon<br>Carbón | Electricity<br>Electricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total          |
|---|------------------------------|----------------------------|---|---------------------------------|---|-----------------------------------|---|---|---------------------------------|-----------------------------|---|------------------------------|---|--------------------------|----------------|
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica |   |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás |   |                              |   |                          |                |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaaria |                                 | Primary energy - Énergie primaire - Energía primaaria |                                   |   | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios   |                                 |                             |   |                              |   |                          |                |
| Production - Production - Generación  | 2 559                        | 18                         | 3 112   | 182                             |   |                                   |   | 415 447   |                                 | 1 469                       |   | 0                            | 553                                     |                          | 422 787        |
| Imports - Importations - Importaciones  |                              |                            |   |                                 |   |                                   |   |   |                                 |                             | - 229   |                              | 553                                     |                          | 554            |
| Exports - Exportations - Exportaciones  |                              |                            |   |                                 |   |                                   |   |   |                                 |                             | - 229   |                              |   |                          | - 229          |
| Stock - Stocks - Inventario (+/-)   | 2 559                        | 18                         | 3 112   | 182                             |   |                                   |   | 415 447   |                                 | 1 469                       |   | - 229                        | 553                                     |                          | 423 111        |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>2 559</b>                 | <b>18</b>                  | <b>3 112</b>  | <b>182</b>                      |   |                                   |   |   |                                 |                             |   |                              |   |                          |                |
| Differences - écarts - Diferencias  |                              |                            |   |                                 |   |                                   |   |   |                                 |                             |   |                              |   |                          |                |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |   |                                 |   |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                                 |                             |   |                              |   |                          |                |
| Electricity - Électricité - Electrica   | - 2 559                      | - 18                       | - 3 112   |                                 |   |                                   |   | - 19  |                                 | - 23                        |   | 5 703                        |   |                          | - 28           |
| CHP - Cogénération - Cogeneración   |                              |                            |   |                                 |   |                                   |   | - 73  |                                 |                             |   | 28                           |   |                          | - 45           |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |   |                                   |   |   |                                 |                             |   |                              |   |                          |                |
| Charcoal - Charbon - Carbón   |                              |                            |   |                                 |   |                                   |   | - 23 301  |                                 |                             |   | 77 377                       | 10 548                                  |                          | - 12 753       |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |   |                                 |   |                                   |   | - 77 377  |                                 |                             |   |                              |   |                          | 0              |
| Other - Autres - Otras  |                              |                            |   |                                 |   |                                   |   |   |                                 |                             |   |                              |   |                          |                |
| Own use - Consomm. propre - Uso propio  |                              |                            |   |                                 |   |                                   |   |   |                                 |                             |   |                              |   |                          | - 237          |
| Distribution - Distribution - Distribución  |                              |                            |   |                                 |   |                                   |   |   |                                 |                             |   |                              |   |                          | - 553          |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |   |                                 |   |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                                 |                             |   |                              |   |                          |                |
| <b>Total - Total - Total</b>  |                              |                            |   | 182                             |   |                                   |   | <b>314 676</b>  |                                 | <b>1 446</b>                |   | <b>77 377</b>                | <b>10 319</b>                           | <b>5 495</b>             | <b>409 495</b> |
| Industry - Industrie - Industria  |                              |                            |   |                                 |   |                                   |   | 56 926  |                                 |                             |   |                              |   | 2 060                    | 58 986         |
| Transport - Transport - Transporte  |                              |                            |   |                                 |   |                                   |   |   |                                 |                             |   |                              |   | 35                       |                |
| Commerce - Commerce - Comercial   |                              |                            |   | 109                             |   |                                   |   | 38 663  |                                 |                             |   |                              |   | 1 548                    | 52 538         |
| Residential - Résidentiel - Residencial   |                              |                            |   | 73                              |   |                                   |   | 219 088   |                                 |                             |   |                              |   | 612                      |                |
| Other - Autres - Otros  |                              |                            |   |                                 |   |                                   |   |   |                                 |                             |   |                              |   | 2 666                    | 297 815        |
|   |                              |                            |   |                                 |   |                                   |   |   |                                 |                             |   |                              |   | 121                      |                |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |   |                                 |   |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                                 |                             |   |                              |   |                          |                |
| <b>Total - Total - Total</b>  | <b>2 453</b>                 | <b>18</b>                  | <b>2 984</b>  | <b>182</b>                      |   |                                   |   | <b>314 709</b>  |                                 | <b>1 453</b>                |   | <b>77 377</b>                | <b>10 319</b>                           | <b>5 495</b>             | <b>409 495</b> |
| Electricity - Électricité - Electrica   | 2 453                        | 18                         | 2 984   |                                 |   |                                   |   | 33  |                                 | 7                           |   |                              |   |                          | 5 495          |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |   |                                   |   |   |                                 |                             |   |                              |   |                          |                |
| Direct use - Utilisation directe - Uso directo  |                              |                            |   | 182                             |   |                                   |   |   |                                 |                             |   |                              |   |                          | 404 000        |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |   |                                 |   |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                                 |                             |   |                              |   |                          |                |
| Electricity - Électricité - Electrica (in/en GWh)   | 711                          | 5                          | 864   |                                 |   |                                   |   | 10  |                                 | 2                           |   |                              |   |                          | 1 592          |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |   |                                 |   |                                   |   |   |                                 |                             |   |                              |   |                          |                |
| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                               |                                 | Geothermal<br>Géothermique<br>Geotérmica              | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios   |                                 |                             | Pellets/briq.<br>Granules/briq.<br>Pellets/briq.                            | Charcoal<br>Carbon<br>Carbón | Electricity<br>Electricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total          |
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica |   |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás |   |                              |   |                          |                |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaaria |                                 |   |                                   |   | Primary energy - Énergie primaire - Energía primaaria   |                                 |                             | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                              |   |                          |                |
| Production - Production - Generación  | 2 644                        | 18                         | 2 206   | 121                             |   |                                   |   | 419 089   |                                 | 1 416                       |   | 0                            | 347                                     |                          | 423 961        |
| Imports - Importations - Importaciones  |                              |                            |   |                                 |   |                                   |   |   |                                 |                             | - 17  |                              |   |                          | 347            |
| Exports - Exportations - Exportaciones  |                              |                            |   |                                 |   |                                   |   |   |                                 |                             | - 17  |                              |   |                          | - 17           |
| Stock - Stocks - Inventario (+/-)   | 2 644                        | 18                         | 2 206   | 121                             |   |                                   |   | 419 089   |                                 | 1 416                       |   |                              |   |                          | 424 227        |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>2 644</b>                 | <b>18</b>                  | <b>2 206</b>  | <b>121</b>                      |   |                                   |   |   |                                 |                             |   |                              |   |                          |                |
| Differences - écarts - Diferencias  |                              |                            |   |                                 |   |                                   |   |   |                                 |                             |   |                              |   |                          |                |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |   |                                 |   |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                                 |                             |   |                              |   |                          |                |
| Electricity - Électricité - Electrica   | - 2 644                      | - 18                       | - 2 206   |                                 |   |                                   |   | - 19  |                                 | - 22                        |   | 4 882                        |   |                          | - 28           |
| CHP - Cogénération - Cogeneración   |                              |                            |   |                                 |   |                                   |   | - 255   |                                 |                             |   | 98                           |   |                          | - 157          |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |   |                                   |   |   |                                 |                             |   |                              |   |                          |                |
| Charcoal - Charbon - Carbón   |                              |                            |   |                                 |   |                                   |   | - 23 059  |                                 |                             |   | 54 884                       | 10 438                                  |                          | - 12 621       |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |   |                                 |   |                                   |   | - 54 884  |                                 |                             |   |                              |   |                          | 0              |
| Other - Autres - Otras  |                              |                            |   |                                 |   |                                   |   |   |                                 |                             |   |                              |   |                          |                |
| Own use - Consomm. propre - Uso propio  |                              |                            |   |                                 |   |                                   |   |   |                                 |                             |   |                              |   |                          | - 167          |
| Distribution - Distribution - Distribución  |                              |                            |   |                                 |   |                                   |   |   |                                 |                             |   |                              |   |                          | - 482          |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |   |                                 |   |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                                 |                             |   |                              |   |                          |                |
| <b>Total - Total - Total</b>  |                              |                            |   | 121                             |   |                                   |   | <b>340 872</b>  |                                 | <b>1 394</b>                |   | <b>54 884</b>                | <b>10 421</b>                           | <b>4 254</b>             | <b>411 946</b> |
| Industry - Industrie - Industria  |                              |                            |   |                                 |   |                                   |   | 71 873  |                                 |                             |   |                              |   | 1827                     | 73 700         |
| Transport - Transport - Transporte  |                              |                            |   |                                 |   |                                   |   |   |                                 |                             |   |                              |   |                          |                |
| Commerce - Commerce - Comercial   |                              |                            |   | 73                              |   |                                   |   | 40 350  |                                 | 8 233                       |   | 1 563                        | 456                                     |                          | 50 674         |
| Residential - Résidentiel - Residencial   |                              |                            |   | 48                              |   |                                   |   | 228 649   |                                 | 1394                        |   | 8 858                        | 1 871                                   |                          | 287 472        |
| Other - Autres - Otros  |                              |                            |   |                                 |   |                                   |   |   |                                 |                             |   |                              |   | 99                       | 99             |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |   |                                 |   |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                                 |                             |   |                              |   |                          |                |
| <b>Total - Total - Total</b>  | <b>3 074</b>                 | <b>17</b>                  | <b>1 059</b>  | <b>121</b>                      |   |                                   |   | <b>340 969</b>  |                                 | <b>1 401</b>                |   | <b>54 884</b>                | <b>10 421</b>                           | <b>4 254</b>             | <b>411 946</b> |
| Electricity - Électricité - Electrica   | 3 074                        | 17                         | 1 059   | 121                             |   |                                   |   | 97  |                                 | 7                           |   |                              |   |                          | 4 254          |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |   |                                   |   |   |                                 |                             |   |                              |   |                          |                |
| Direct use - Utilisation directe - Uso directo  |                              |                            |   |                                 |   |                                   |   |   |                                 |                             |   |                              |   |                          | 407 692        |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |   |                                 |   |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                                 |                             |   |                              |   |                          |                |
| Electricity - Électricité - Electrica (in/en GWh)   | 734                          | 5                          | 613   |                                 |   |                                   |   | 30  |                                 | 2                           |   |                              |   |                          | 1 384          |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |   |                                 |   |                                   |   |   |                                 |                             |   |                              |   |                          |                |

## Belgium

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Eoliennes<br>Éolica | Solar - Solaire - Solar                                      |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primaires -<br>Biocombustibles primarios   |                             |               | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Carbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total          |
|---|------------------------------|-----------------------------|--|---------------------------------|-------------------------------|--|-----------------------------------|---|---|-----------------------------|---------------|--|------------------------------|---|--------------------------|----------------|
|   |                              |                             | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica               | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás |               |  |                              |   |                          |                |
|   |                              |                             | Primary energy - Énergie primaire - Energía primaaria        |                                 |                               |  |                                   |   | Primary energy - Énergie primaire - Energía primaaria   |                             |               |  |                              |   |                          |                |
| Production - Production - Generación  | 976                          | 44 469                      | 24 754   | 1167                            | 141                           | 9 784                                    | 18 120                            | 321   | 51 660  | 17 142                      | 10 807        | 21 822   | 1 083                        | 14 990                                  |                          | 179 020        |
| Imports - Importations - Importaciones  |                              |                             |  |                                 |                               |  | 2 424                             |   | 33 659  |                             |               |  |                              |   | - 21 892                 | 74 299         |
| Exports - Exportations - Exportaciones  |                              |                             |  |                                 |                               |  |                                   |   | - 16 355  |                             |               |  |                              |   |                          | - 38 247       |
| Stock - Stocks - Inventario (+/-)   |                              |                             |  |                                 |                               |  |                                   |   |   |                             |               |  |                              |   |                          |                |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>976</b>                   | <b>44 469</b>               | <b>24 754</b>  | <b>1167</b>                     | <b>141</b>                    | <b>9 784</b>                             | <b>18 441</b>                     |   | <b>54 084</b>   | <b>34 446</b>               | <b>10 807</b> | <b>21 822</b>                                    | <b>1 083</b>                 | <b>- 6 902</b>                          | <b>- 1 324</b>           | <b>215 072</b> |
| Differences - Ecarts - Diferencias  |                              |                             |  |                                 |                               |  | - 1                               |   | - 3   |                             |               |  |                              |   |                          | - 1 328        |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                             |  |                                 |                               |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                             |               |  |                              |   |                          |                |
| Electricity - Electricité - Electrica   | - 976                        | - 44 469                    | - 24 754   |                                 |                               |  |                                   |   | - 3 302   | - 121                       |               |  |                              |   |                          | - 12 412       |
| CHP - Cogénération - Cogeneración   |                              |                             |  |                                 |                               |  |                                   |   | - 13 673  | - 483                       |               |  |                              |   |                          | - 14 263       |
| Heat - Chaleur - Calor  |                              |                             |  |                                 |                               |  |                                   |   |   |                             |               |  |                              |   |                          | - 65           |
| Charcoal - Charbon - Carbón   |                              |                             |  |                                 |                               |  |                                   |   |   |                             |               |  |                              |   |                          | - 0            |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                             |  |                                 |                               |  |                                   |   |   |                             |               |  |                              |   |                          |                |
| Other - Autres - Otras  |                              |                             |  |                                 |                               |  |                                   |   |   |                             |               |  |                              |   |                          | - 8 587        |
| Own use - Consomm. propre - Uso propio  |                              |                             |  |                                 |                               |  |                                   |   |   |                             |               |  |                              |   |                          | - 3 366        |
| Distribution - Distribución - Distribución  |                              |                             |  |                                 |                               |  |                                   |   |   |                             |               |  |                              |   |                          |                |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                             |  |                                 |                               |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                             |               |  |                              |   |                          |                |
| <b>Total - Total - Total</b>  |                              |                             |  | <b>1168</b>                     |                               | <b>9 784</b>                             |                                   | <b>1138</b>                                 | <b>41 296</b>   | <b>33 840</b>               | <b>4 600</b>  | <b>10 602</b>                                    | <b>1 083</b>                 | <b>70 192</b>                           | <b>3 126</b>             | <b>176 827</b> |
| Industry - Industrie - Industria  |                              |                             |  | 3                               |                               | 69                                       |                                   | 1138  | 26 590  | 203                         | 1 687         |  |                              | 34 156                                  | 2 460                    | 66 305         |
| Transport - Transport - Transporte  |                              |                             |  | 67                              |                               |  |                                   |   | 33 585  |                             |               |  |                              | 1 955                                   |                          | 35 541         |
| Commerce - Commerce - Comercial   |                              |                             |  | 1094                            |                               | 1 359                                    |                                   |   | 934   |                             | 1 174         |  |                              | 18 158                                  | 572                      | 22 264         |
| Residential - Résidentiel - Residencial   |                              |                             |  | 3                               |                               | 8 355                                    |                                   |   | 13 572  | 48                          |               | 10 602   |                              | 14 877                                  | 87                       | 49 717         |
| Other - Autres - Otras  |                              |                             |  |                                 |                               | 1  |                                   |   | 201   | 3                           | 1 739         |  |                              | 1 045                                   | 6                        | 3 000          |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                             |  |                                 |                               |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                             |               |  |                              |   |                          |                |
| <b>Total - Total - Total</b>  | <b>828</b>                   | <b>37 744</b>               | <b>21 010</b>  | <b>1168</b>                     | <b>60</b>                     | <b>9 784</b>                             | <b>6 329</b>                      |   | <b>41 155</b>   | <b>34 123</b>               | <b>8 468</b>  | <b>15 074</b>                                    | <b>1 083</b>                 | <b>70 192</b>                           | <b>3 126</b>             | <b>176 827</b> |
| Electricity - Electricité - Electrica   | 828                          | 37 744                      | 21 010   | 1168                            | 60                            | 9 784                                    |                                   | 1138  | - 914   | 218                         | 3 095         |  |                              | 218                                     |                          | 70 192         |
| Heat - Chaleur - Calor  |                              |                             |  |                                 |                               |  |                                   |   | 1 453   | 773                         | 66            |  |                              | 773                                     |                          | 3 126          |
| Direct use - Utilisation directe - Uso directo  |                              |                             |  |                                 |                               |  |                                   |   | 41 296  | 33 840                      | 4 600         | 10 602   |                              | 10 602                                  |                          | 103 509        |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                             |  |                                 |                               |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                             |               |  |                              |   |                          |                |
| Electricity - Electricité - Electrica (in/en GWh)   | 271                          | 12 353                      | 6 876  |                                 |                               |  |                                   |   | - 299   | 71                          | 1 013         | 1 464  |                              |   |                          | 22 972         |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                             |  |                                 |                               | 65                                       |                                   | 1 570                                       | 835   | 72                          | 835           |  |                              |   |                          | 3 377          |
| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Eoliennes<br>Éolica | Solar - Solaire - Solar                                      |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primaires -<br>Biocombustibles primarios   |                             |               | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Carbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total          |
|   |                              |                             | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica               | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás |               |  |                              |   |                          |                |
|   |                              |                             | <b>Primary energy - Énergie primaire - Energía primaaria</b> |                                 |                               |  |                                   |   | <b>Primary energy - Énergie primaire - Energía primaaria</b>  |                             |               |  |                              |   |                          |                |
| Production - Production - Generación  | 1505                         | 43 191                      | 20 225   | 1 089                           | 153                           | 7 957                                    | 19 358                            | 30  | 52 561  | 18 064                      | 10 292        | 21 685   | 1 254                        | 12 372                                  |                          | 174 396        |
| Imports - Importations - Importaciones  |                              |                             |  |                                 |                               |  | 2 410                             |   | 28 225  |                             |               |  |                              |   |                          | 65 975         |
| Exports - Exportations - Exportaciones  |                              |                             |  |                                 |                               |  |                                   |   | - 13 502  |                             |               |  |                              |   |                          | - 32 288       |
| Stock - Stocks - Inventario (+/-)   |                              |                             |  |                                 |                               |  |                                   |   |   |                             |               |  |                              |   |                          |                |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>1505</b>                  | <b>43 191</b>               | <b>20 225</b>  | <b>1 089</b>                    | <b>153</b>                    | <b>7 957</b>                             | <b>19 388</b>                     |   | <b>54 970</b>   | <b>32 787</b>               | <b>10 292</b> | <b>21 685</b>                                    | <b>1 254</b>                 | <b>- 6 414</b>                          | <b>- 687</b>             | <b>208 084</b> |
| Differences - Ecarts - Diferencias  |                              |                             |  |                                 |                               |  | - 0                               |   | 0   | 2                           |               |  |                              |   |                          | - 678          |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                             |  |                                 |                               |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                             |               |  |                              |   |                          |                |
| Electricity - Electricité - Electrica   | - 1505                       | - 43 191                    | - 20 225   |                                 |                               |  |                                   |   | - 5 284   | - 645                       |               |  |                              |   |                          | - 13 629       |
| CHP - Cogénération - Cogeneración   |                              |                             |  |                                 |                               |  |                                   |   | - 12 445  | - 14 483                    |               |  |                              |   |                          | - 12 294       |
| Heat - Chaleur - Calor  |                              |                             |  |                                 |                               |  |                                   |   | - 16  | - 5 271                     |               |  |                              |   |                          | - 67           |
| Charcoal - Charbon - Carbón   |                              |                             |  |                                 |                               |  |                                   |   |   |                             |               |  |                              |   |                          | - 0            |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                             |  |                                 |                               |  |                                   |   |   |                             |               |  |                              |   |                          |                |
| Other - Autres - Otras  |                              |                             |  |                                 |                               |  |                                   |   |   |                             |               |  |                              |   |                          |                |
| Own use - Consomm. propre - Uso propio  |                              |                             |  |                                 |                               |  |                                   |   |   |                             |               |  |                              |   |                          |                |
| Distribution - Distribución - Distribución  |                              |                             |  |                                 |                               |  |                                   |   |   |                             |               |  |                              |   |                          |                |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                             |  |                                 |                               |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                             |               |  |                              |   |                          |                |
| <b>Total - Total - Total</b>  |                              |                             |  | <b>1 089</b>                    |                               | <b>7 957</b>                             |                                   | <b>1 081</b>                                | <b>43 528</b>   | <b>32 607</b>               | <b>4 338</b>  | <b>10 649</b>                                    | <b>1 254</b>                 | <b>66 253</b>                           | <b>3 295</b>             | <b>172 051</b> |
| Industry - Industrie - Industria  |                              |                             |  | 3                               |                               | 208                                      |                                   | 1 081                                       | 26 981  | 227                         | 1 669         |  |                              | 31 134                                  | 2 650                    | 63 953         |
| Transport - Transport - Transporte  |                              |                             |  | 61                              |                               | 1 286                                    |                                   |   | 820   |                             | 1 189         |  |                              | 1 478                                   |                          | 33 804         |
| Commerce - Commerce - Comercial   |                              |                             |  | 1 022                           |                               | 6 462                                    |                                   |   | 15 461  | 52                          |               | 10 649   |                              | 16 593                                  | 530                      | 20 478         |
| Residential - Résidentiel - Residencial   |                              |                             |  | 3                               |                               | 1  |                                   |   | 267   | 3                           | 1 481         |  |                              | 15 690                                  | 106                      | 50 694         |
| Other - Autres - Otras  |                              |                             |  |                                 |                               |  |                                   |   |   |                             |               |  |                              | 1 359                                   | 8                        | 3 121          |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                             |  |                                 |                               |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                             |               |  |                              |   |                          |                |
| <b>Total - Total - Total</b>  | <b>1 303</b>                 | <b>37 376</b>               | <b>17 502</b>  | <b>1 089</b>                    | <b>61</b>                     | <b>7 957</b>                             | <b>6 412</b>                      |   | <b>43 045</b>   | <b>32 654</b>               | <b>8 207</b>  | <b>15 191</b>                                    | <b>1 254</b>                 |   |                          | <b>172 051</b> |
| Electricity - Electricité - Electrica   | 1 303                        | 37 376                      | 17 502   | 1 089                           | 61                            | 7 957                                    |                                   | 1 081                                       | 3 604   | - 1160                      | 45            | 3 041  |                              |   |                          | <b>66 253</b>  |
| Heat - Chaleur - Calor  |                              |                             |  |                                 |                               |  |                                   |   | 1 727   | 677                         | 2             | 827  |                              |   |                          | <b>3 295</b>   |
| Direct use - Utilisation directe - Uso directo  |                              |                             |  |                                 |                               |  |                                   |   | 43 528  | 32 607                      | 4 338         | 10 649   |                              | 1254                                    |                          | <b>102 503</b> |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                             |  |                                 |                               |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                             |               |  |                              |   |                          |                |
| Electricity - Electricité - Electrica (in/en GWh)   | 418                          | 11 998                      | 5 618  |                                 |                               | 67                                       |                                   | 1 874                                       | 1157  | - 372                       | 15            | 976  | 1 458                        |   |                          | <b>21 267</b>  |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                             |  |                                 |                               |  |                                   |   | 735   | 2                           | 898           |  |                              |   |                          | <b>3 575</b>   |

## Belize

## Belize

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                        |                                 | Geothermal<br>Géothermique<br>Geoénergia | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                                 | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Electricidad | Heat<br>Chaleur<br>Calor | Total        |
|---|--|----------------------------|--|---------------------------------|--|-----------------------------------|---|---|---------------------------------|--|-------------------------------|--|--------------------------|--------------|
|   |  |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás                      |                               |  |                          |              |
| <b>Primary energy - Énergie primaire - Energía primaria</b>   |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |  |                          |              |
| Production - Production - Generación  | 861  | 0                          | 28   |                                 |  |                                   |   | 5 546   |                                 |  | 0                             | 1 044                                      |                          | 6 434        |
| Imports - Importations - Importaciones  |  |                            |  |                                 |  |                                   |   | 301   |                                 |  | 0                             | 1 044                                      |                          | 1 044        |
| Exports - Exportations - Exportaciones  |  |                            |  |                                 |  |                                   |   | 5 846   |                                 |  | 0                             | 1 044                                      |                          | 301          |
| Stock - Stocks - Inventario (+/-)   |  |                            | 28   |                                 |  |                                   |   |   |                                 |  | 0                             | - 256                                      |                          | 7 779        |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>861</b>                                   | <b>0</b>                   | <b>28</b>                                      |                                 |  |                                   |   |   |                                 |  | <b>0</b>                      | <b>1 044</b>                               |                          | <b>- 256</b> |
| Differences - Ecarts - Diferencias  |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |  |                          |              |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |  |                          |              |
| Electricity - Électricité - Electrica   | - 861  | - 0                        | - 28   |                                 |  |                                   |   | - 4 874   |                                 |  |                               | 888  |                          | - 4 249      |
| CHP - Cogénération - Cogeneración   |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               | 625  |                          |              |
| Heat - Chaleur - Calor  |  |                            |  |                                 |  |                                   |   | - 57  |                                 |  | 26                            |  |                          | - 31         |
| Charcoal - Charbon - Carbón   |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |  |                          |              |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               | - 36                                       |                          | - 36         |
| Other - Autres - Otras  |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               | - 263                                      |                          | - 263        |
| Own use - Consomm. propre - Uso propio  |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |  |                          |              |
| Distribution - Distribution - Distribución  |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |  |                          |              |
| <b>Final consumption - Consommation finale - Consumo final</b>  |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |  |                          |              |
| <b>Total - Total - Total</b>  |  |                            |  |                                 |  |                                   |   | 915   |                                 |  | 26                            | 2 003                                      |                          | 2 943        |
| Industry - Industrie - Industria  |  |                            |  |                                 |  |                                   |   | 301   |                                 |  | 122                           |  |                          | 423          |
| Transport - Transport - Transporte  |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |  |                          |              |
| Commerce - Commerce - Comercial   |  |                            |  |                                 |  |                                   |   | 614   |                                 |  | 26                            | 1 047                                      |                          | 1 047        |
| Residential - Résidentiel - Residencial   |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               | 833  |                          | 1 474        |
| Other - Autres - Otros  |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |  |                          |              |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |  |                          |              |
| <b>Total - Total - Total</b>  | <b>1 139</b>                                 | <b>0</b>                   | <b>37</b>                                      |                                 |  |                                   |   | 1 742   |                                 |  | 26                            |  |                          | 2 943        |
| Electricity - Électricité - Electrica   | 1 139  | 0                          | 37   |                                 |  |                                   |   | 827   |                                 |  |                               |  |                          | 2 003        |
| Heat - Chaleur - Calor  |  |                            |  |                                 |  |                                   |   | 915   |                                 |  | 26                            |  |                          | 941          |
| Direct use - Utilisation directe - Uso directo  |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |  |                          |              |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |  |                          |              |
| Electricity - Électricité - Electrica (in/en GWh)   | 239  | 0                          | 8  |                                 |  |                                   |   | 174   |                                 |  |                               |  |                          | 420          |
| Heat - Chaleur - Calor (in/en TJ)   |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |  |                          |              |

| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                        |                                 | Geothermal<br>Géothermique<br>Geoénergia | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                                 | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Electricidad | Heat<br>Chaleur<br>Calor | Total   |
|---|--|----------------------------|--|---------------------------------|--|-----------------------------------|---|---|---------------------------------|--|-------------------------------|--|--------------------------|---------|
|   |  |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás                      |                               |  |                          |         |
| <b>Primary energy - Énergie primaire - Energía primaria</b>   |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |  |                          |         |
| Production - Production - Generación  | 567  | 0                          | 25   |                                 |  |                                   |   | 5 291   |                                 |  | 0                             | 1 109                                      |                          | 5 883   |
| Imports - Importations - Importaciones  |  |                            |  |                                 |  |                                   |   |   |                                 |  | - 1                           |  |                          | 1 109   |
| Exports - Exportations - Exportaciones  |  |                            |  |                                 |  |                                   |   | 282   |                                 |  | - 1                           |  |                          | - 1     |
| Stock - Stocks - Inventario (+/-)   |  |                            | 25   |                                 |  |                                   |   | 5 573   |                                 |  | - 1                           | 1 109                                      |                          | 7 273   |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>567</b>                                   | <b>0</b>                   | <b>25</b>                                      |                                 |  |                                   |   |   |                                 |  | <b>- 62</b>                   |  |                          |         |
| Differences - Ecarts - Diferencias  |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |  |                          |         |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |  |                          |         |
| Electricity - Électricité - Electrica   | - 567  | - 0                        | - 25   |                                 |  |                                   |   | - 2 427   |                                 |  |                               | 592  |                          | - 1 948 |
| CHP - Cogénération - Cogeneración   |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               | 479  |                          |         |
| Heat - Chaleur - Calor  |  |                            |  |                                 |  |                                   |   | - 56  |                                 |  | 25                            |  |                          | - 31    |
| Charcoal - Charbon - Carbón   |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |  |                          |         |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               | - 203                                      |                          | - 203   |
| Other - Autres - Otras  |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               | - 279                                      |                          | - 279   |
| Own use - Consomm. propre - Uso propio  |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |  |                          |         |
| Distribution - Distribution - Distribución  |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |  |                          |         |
| <b>Final consumption - Consommation finale - Consumo final</b>  |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |  |                          |         |
| <b>Total - Total - Total</b>  |  |                            |  |                                 |  |                                   |   | 3 090   |                                 |  | 24                            | 1 636                                      |                          | 4 750   |
| Industry - Industrie - Industria  |  |                            |  |                                 |  |                                   |   | 1 717   |                                 |  | 55                            |  |                          | 1 772   |
| Transport - Transport - Transporte  |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |  |                          |         |
| Commerce - Commerce - Comercial   |  |                            |  |                                 |  |                                   |   | 1 373   |                                 |  | 24                            | 846  |                          | 846     |
| Residential - Résidentiel - Residencial   |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               | 735  |                          | 2 132   |
| Other - Autres - Otros  |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |  |                          |         |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |  |                          |         |
| <b>Total - Total - Total</b>  | <b>866</b>                                   | <b>0</b>                   | <b>38</b>                                      |                                 |  |                                   |   | 3 822   |                                 |  | 24                            |  |                          | 4 750   |
| Electricity - Électricité - Electrica   | 866  | 0                          | 38   |                                 |  |                                   |   | 732   |                                 |  |                               |  |                          | 1 636   |
| Heat - Chaleur - Calor  |  |                            |  |                                 |  |                                   |   | 3 090   |                                 |  | 24                            |  |                          | 3 114   |
| Direct use - Utilisation directe - Uso directo  |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |  |                          |         |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |  |                          |         |
| Electricity - Électricité - Electrica (in/en GWh)   | 158  | 0                          | 7  |                                 |  |                                   |   | 133   |                                 |  |                               |  |                          | 298     |
| Heat - Chaleur - Calor (in/en TJ)   |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |  |                          |         |

**Benin**

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Eoliennes<br>Eólica | Solar - Solaire - Solar                               |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios   |                             |          | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total         |
|---|------------------------------|-----------------------------|---|---------------------------------|-------------------------------|--|-----------------------------------|---|---|-----------------------------|----------|--|-------------------------------|---|--------------------------|---------------|
|   |                              |                             | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás |          |  |                               |   |                          |               |
|   |                              |                             | Primary energy - Énergie primaire - Energía primaaria |                                 |                               |  |                                   |   | Primary energy - Énergie primaire - Energía primaaria   |                             |          |  |                               |   |                          |               |
| Production - Production - Generación  | 0                            |                             |   | 41                              |                               |  |                                   |   |   |                             | 1        |  |                               |   |                          | 43            |
| Imports - Importations - Importaciones  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |          |  |                               |   |                          |               |
| Exports - Exportations - Exportaciones  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |          |  |                               |   |                          |               |
| Stock - Stocks - Inventario (+/-)   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |          |  |                               |   |                          |               |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>0</b>                     |                             |   | <b>41</b>                       |                               |  |                                   |   |   |                             | <b>1</b> |  |                               |   |                          | <b>43</b>     |
| Differences - Ecart - Diferencias   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |          |  |                               |   |                          | <b>- 0</b>    |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                             |   |                                 |                               |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                             |          |  |                               |   |                          |               |
| Electricity - Électricité - Electrica   | - 0                          |                             |   | - 41                            |                               |  |                                   |   |   |                             |          |  |                               |   |                          |               |
| CHP - Cogénération - Cogeneración   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |          |  |                               |   |                          |               |
| Heat - Chaleur - Calor  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |          |  |                               |   |                          |               |
| Charcoal - Charbon - Carbón   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |          |  |                               |   |                          |               |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |          |  |                               |   |                          |               |
| Other - Autres - Otras  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |          |  |                               |   |                          |               |
| Own use - Consomm. propre - Uso propio  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |          |  |                               |   |                          |               |
| Distribution - Distribution - Distribución  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |          |  |                               |   |                          |               |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                             |   |                                 |                               |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                             |          |  |                               |   |                          |               |
| <b>Total - Total - Total</b>  |                              |                             |   |                                 |                               |  |                                   |   |   |                             | <b>1</b> |  |                               |   |                          | <b>42</b>     |
| Industry - Industrie - Industria  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |          | <b>10</b>  |                               |   |                          | <b>10</b>     |
| Transport - Transport - Transporte  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |          |  |                               |   |                          |               |
| Commerce - Commerce - Comercial   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |          |  |                               |   |                          |               |
| Residential - Résidentiel - Residencial   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |          | <b>17</b>  |                               |   |                          | <b>17</b>     |
| Other - Autres - Otros  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |          | <b>13</b>  |                               |   |                          | <b>14</b>     |
|   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |          | <b>1</b>   |                               |   |                          | <b>1</b>      |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                             |   |                                 |                               |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                             |          |  |                               |   |                          |               |
| <b>Total - Total - Total</b>  | <b>0</b>                     |                             |   | <b>41</b>                       |                               |  |                                   |   |   |                             | <b>1</b> |  |                               |   |                          | <b>42</b>     |
| Electricity - Électricité - Electrica   | 0                            |                             |   | 41                              |                               |  |                                   |   |   |                             |          |  |                               |   |                          | <b>41</b>     |
| Heat - Chaleur - Calor  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |          |  |                               |   |                          |               |
| Direct use - Utilisation directe - Uso directo  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |          |  |                               |   |                          | <b>1</b>      |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                             |   |                                 |                               |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                             |          |  |                               |   |                          |               |
| Electricity - Électricité - Electrica (in/en GWh)   | 0                            |                             |   | 11                              |                               |  |                                   |   |   |                             |          |  |                               |   |                          | <b>11</b>     |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |          |  |                               |   |                          |               |
| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Eoliennes<br>Eólica | Solar - Solaire - Solar                               |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios   |                             |          | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total         |
|   |                              |                             | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás |          |  |                               |   |                          |               |
|   |                              |                             | Primary energy - Énergie primaire - Energía primaaria |                                 |                               |  |                                   |   | Primary energy - Énergie primaire - Energía primaaria   |                             |          |  |                               |   |                          |               |
| Production - Production - Generación  | 0                            |                             |   | 30                              |                               |  |                                   |   | 76 043  |                             | 1        |  |                               |   |                          | 76 075        |
| Imports - Importations - Importaciones  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |          |  |                               |   |                          | <b>1</b>      |
| Exports - Exportations - Exportaciones  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |          |  |                               |   |                          | <b>- 76</b>   |
| Stock - Stocks - Inventario (+/-)   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |          |  |                               |   |                          |               |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>0</b>                     |                             |   | <b>30</b>                       |                               |  |                                   |   | <b>76 043</b>   |                             | <b>1</b> |  |                               |   |                          | <b>76 000</b> |
| Differences - Ecart - Diferencias   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |          |  |                               |   |                          | <b>- 0</b>    |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                             |   |                                 |                               |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                             |          |  |                               |   |                          |               |
| Electricity - Électricité - Electrica   | - 0                          |                             |   | - 30                            |                               |  |                                   |   | - 3 337   |                             |          |  |                               |   |                          |               |
| CHP - Cogénération - Cogeneración   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |          |  |                               |   |                          |               |
| Heat - Chaleur - Calor  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |          |  |                               |   |                          |               |
| Charcoal - Charbon - Carbón   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |          |  |                               |   |                          |               |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |          |  |                               |   |                          |               |
| Other - Autres - Otras  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |          |  |                               |   |                          |               |
| Own use - Consomm. propre - Uso propio  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |          |  |                               |   |                          |               |
| Distribution - Distribution - Distribución  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |          |  |                               |   |                          |               |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                             |   |                                 |                               |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                             |          |  |                               |   |                          |               |
| <b>Total - Total - Total</b>  |                              |                             |   |                                 |                               |  |                                   |   | <b>72 706</b>   |                             | <b>1</b> |  |                               |   |                          | <b>74 173</b> |
| Industry - Industrie - Industria  |                              |                             |   |                                 |                               |  |                                   |   | 12 663  |                             |          |  |                               |   |                          | <b>7</b>      |
| Transport - Transport - Transporte  |                              |                             |   |                                 |                               |  |                                   |   | 60 043  |                             |          |  |                               |   |                          |               |
| Commerce - Commerce - Comercial   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |          |  |                               |   |                          |               |
| Residential - Résidentiel - Residencial   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |          |  |                               |   |                          |               |
| Other - Autres - Otros  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |          |  |                               |   |                          |               |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                             |   |                                 |                               |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                             |          |  |                               |   |                          |               |
| <b>Total - Total - Total</b>  | <b>0</b>                     |                             |   | <b>30</b>                       |                               |  |                                   |   | <b>72 706</b>   |                             | <b>1</b> |  |                               |   |                          | <b>74 173</b> |
| Electricity - Électricité - Electrica   | 0                            |                             |   | 30                              |                               |  |                                   |   | 72 706  |                             | 1        |  |                               |   |                          | <b>30</b>     |
| Heat - Chaleur - Calor  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |          |  |                               |   |                          |               |
| Direct use - Utilisation directe - Uso directo  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |          |  |                               |   |                          | <b>74 143</b> |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                             |   |                                 |                               |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                             |          |  |                               |   |                          |               |
| Electricity - Électricité - Electrica (in/en GWh)   | 0                            |                             |   | 8                               |                               |  |                                   |   |   |                             |          |  |                               |   |                          | <b>8</b>      |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |          |  |                               |   |                          |               |

## Bhutan

## Bhutan

| 2022 (In/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                               |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios   |                             |     | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total                        |
|---|------------------------------|----------------------------|---|---------------------------------|-------------------------------|--|-----------------------------------|---|---|-----------------------------|-----|--|-------------------------------|---|--------------------------|------------------------------|
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás |     |  |                               |   |                          |                              |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaaria |                                 |                               |  |                                   |   | Primary energy - Énergie primaire - Energía primaaria   |                             |     |  |                               |   |                          |                              |
| Production - Production - Generación  | 38 776                       | 2                          | 2   |                                 |                               |  |                                   |   | 61 200  |                             | 100 |  | 4 420<br>- 421                | 734<br>- 26 938                         |                          | 100 079<br>5 154<br>- 27 359 |
| Imports - Importations - Importaciones  |                              |                            |   |                                 |                               |  |                                   |   | 61 200  |                             | 100 |  | 3 999                         | - 26 204                                |                          | 77 874                       |
| Exports - Exportations - Exportaciones  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |     |  |                               |   |                          |                              |
| Stock - Stocks - Inventario (+/-)   | 38 776                       | 2                          | 2   |                                 |                               |  |                                   |   |   |                             |     |  |                               |   |                          |                              |
| <b>Supply - Approvisionnement - Oferta</b>  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |     |  |                               |   |                          |                              |
| Differences - Ecarts - Diferencias  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |     |  |                               |   |                          |                              |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |   |                                 |                               |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                             |     |  |                               |   |                          |                              |
| Electricity - Électricité - Electrica   | - 38 776                     | - 2                        | - 2   |                                 |                               |  |                                   |   | - 630   |                             |     |  |                               | 38 779                                  |                          | - 345                        |
| CHP - Cogénération - Cogeneración   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |     |  |                               |   |                          |                              |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |     |  |                               | - 4                                     |                          | - 4                          |
| Charcoal - Charbon - Carbón   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |     |  |                               | - 100                                   |                          | - 100                        |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |     |  |                               |   |                          |                              |
| Other - Autres - Otras  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |     |  |                               |   |                          |                              |
| Own use - Consomm. propre - Uso propio  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |     |  |                               |   |                          |                              |
| Distribution - Distribution - Distribución  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |     |  |                               |   |                          |                              |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |   |                                 |                               |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                             |     |  |                               |   |                          |                              |
| Total - Total - Total   |                              |                            |   |                                 |                               |  |                                   |   | 60 569  |                             | 100 |  | 4 284                         | 12 472<br>10 265                        |                          | 77 426<br>10 265             |
| Industry - Industrie - Industria  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |     |  |                               |   |                          |                              |
| Transport - Transport - Transporte  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |     |  |                               |   |                          |                              |
| Commerce - Commerce - Comercial   |                              |                            |   |                                 |                               |  |                                   |   | 9 085<br>51 484   |                             | 100 |  | 643<br>3 641                  | 615<br>1 236<br>356                     |                          | 10 343<br>56 462<br>356      |
| Residential - Résidentiel - Residencial   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |     |  |                               |   |                          |                              |
| Other - Autres - Otros  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |     |  |                               |   |                          |                              |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |   |                                 |                               |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                             |     |  |                               |   |                          |                              |
| Total - Total - Total   | 12 471                       | 0                          | 1   |                                 |                               |  |                                   |   | 60 569  |                             | 100 |  | 4 284                         |   |                          | 77 426                       |
| Electricity - Électricité - Electrica   | 12 471                       | 0                          | 1   |                                 |                               |  |                                   |   | 60 569  |                             | 100 |  | 4 284                         |   |                          | 12 472                       |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |     |  |                               |   |                          | 64 954                       |
| Direct use - Utilisation directe - Uso directo  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |     |  |                               |   |                          |                              |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |   |                                 |                               |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                             |     |  |                               |   |                          |                              |
| Electricity - Électricité - Electrica (in/en GWh)   | 10 771                       | 0                          | 0   |                                 |                               |  |                                   |   |   |                             |     |  |                               |   |                          | 10 772                       |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |     |  |                               |   |                          |                              |
| 2021 (In/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                               |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios   |                             |     | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total                        |
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás |     |  |                               |   |                          |                              |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaaria |                                 |                               |  |                                   |   | Primary energy - Énergie primaire - Energía primaaria   |                             |     |  |                               |   |                          |                              |
| Production - Production - Generación  | 38 960                       | 1                          | 2   |                                 |                               |  |                                   |   | 60 757  |                             | 98  |  | 3 892<br>- 364                | 353<br>- 29 072                         |                          | 99 818<br>4 245<br>- 29 435  |
| Imports - Importations - Importaciones  |                              |                            |   |                                 |                               |  |                                   |   | 60 757  |                             | 98  |  | 3 529                         | - 28 719                                |                          | 74 628                       |
| Exports - Exportations - Exportaciones  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |     |  |                               |   |                          |                              |
| Stock - Stocks - Inventario (+/-)   | 38 960                       | 1                          | 2   |                                 |                               |  |                                   |   |   |                             |     |  |                               |   |                          |                              |
| <b>Supply - Approvisionnement - Oferta</b>  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |     |  |                               |   |                          |                              |
| Differences - Ecarts - Diferencias  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |     |  |                               |   |                          |                              |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |   |                                 |                               |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                             |     |  |                               |   |                          |                              |
| Electricity - Électricité - Electrica   | - 38 960                     | - 1                        | - 2   |                                 |                               |  |                                   |   | - 617   |                             |     |  |                               | 38 963                                  |                          | - 338                        |
| CHP - Cogénération - Cogeneración   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |     |  |                               |   |                          |                              |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |     |  |                               | - 4                                     |                          | - 4                          |
| Charcoal - Charbon - Carbón   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |     |  |                               | - 1335                                  |                          | - 1335                       |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |     |  |                               |   |                          |                              |
| Other - Autres - Otras  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |     |  |                               |   |                          |                              |
| Own use - Consomm. propre - Uso propio  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |     |  |                               |   |                          |                              |
| Distribution - Distribution - Distribución  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |     |  |                               |   |                          |                              |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |   |                                 |                               |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                             |     |  |                               |   |                          |                              |
| Total - Total - Total   |                              |                            |   |                                 |                               |  |                                   |   | 60 140  |                             | 98  |  | 3 808                         | 8 905<br>6 888                          |                          | 72 951<br>6 888              |
| Industry - Industrie - Industria  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |     |  |                               |   |                          |                              |
| Transport - Transport - Transporte  |                              |                            |   |                                 |                               |  |                                   |   | 9 021<br>51 119   |                             | 98  |  | 571<br>3 237                  | 566<br>1 132<br>319                     |                          | 10 158<br>55 585<br>319      |
| Commerce - Commerce - Comercial   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |     |  |                               |   |                          |                              |
| Residential - Résidentiel - Residencial   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |     |  |                               |   |                          |                              |
| Other - Autres - Otros  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |     |  |                               |   |                          |                              |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |   |                                 |                               |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                             |     |  |                               |   |                          |                              |
| Total - Total - Total   | 8 904                        | 0                          | 0   |                                 |                               |  |                                   |   | 60 140  |                             | 98  |  | 3 808                         |   |                          | 72 951                       |
| Electricity - Électricité - Electrica   | 8 904                        | 0                          | 0   |                                 |                               |  |                                   |   | 60 140  |                             | 98  |  | 3 808                         |   |                          | 8 905                        |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |     |  |                               |   |                          |                              |
| Direct use - Utilisation directe - Uso directo  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |     |  |                               |   |                          | 64 046                       |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |   |                                 |                               |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                             |     |  |                               |   |                          |                              |
| Electricity - Électricité - Electrica (in/en GWh)   | 10 822                       | 0                          | 0   |                                 |                               |  |                                   |   |   |                             |     |  |                               |   |                          | 10 823                       |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |     |  |                               |   |                          |                              |

## Bolivia (Plurinational State of)

## Bolivia (Plurinational State of)

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Éolica | Solar - Solaire - Solar                        |                                 | Geothermal<br>Géothermique | Other RE<br>Autres ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primaires -<br>Biocombustibles primarios |                                 | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total         |
|---|------------------------------|----------------------------|--|---------------------------------|----------------------------|-----------------------|---|---|---------------------------------|--|-------------------------------|---|--------------------------|---------------|
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica |                            |                       |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás                      |                               |   |                          |               |
| <b>Primary energy - Énergie primaire - Energía primaria</b>   |                              |                            |  |                                 |                            |                       |   |   |                                 |  |                               |   |                          |               |
| Production - Production - Generación  | 10 266                       | 1 586                      | 1 266  |                                 |                            |                       |   | 68 562  |                                 |  |                               | 4 420                                   |                          | 81 680        |
| Imports - Importations - Importaciones  |                              |                            |  |                                 |                            |                       |   |   |                                 |  |                               | - 296                                   |                          | 4 420         |
| Exports - Exportations - Exportaciones  |                              |                            |  |                                 |                            |                       |   |   |                                 |  |                               |   |                          | - 296         |
| Stock - Stocks - Inventario (+/-)   |                              |                            |  |                                 |                            |                       |   |   |                                 |  |                               |   |                          |               |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>10 266</b>                | <b>1 586</b>               | <b>1 266</b>                                   |                                 |                            |                       |   | <b>68 562</b>   |                                 |  |                               | <b>4 124</b>                            |                          | <b>85 804</b> |
| <i>Differences - écarts - Diferencias</i>   |                              |                            |  |                                 |                            |                       |   |   |                                 |  |                               |   |                          | - 341         |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |                                 |                            |                       |   |   |                                 |  |                               |   |                          |               |
| Electricity - Électricité - Electrica   | - 10 266                     | - 1 586                    | - 1 266  |                                 |                            |                       |   | - 6 773   |                                 |  |                               | 13 976                                  |                          | - 5 915       |
| CHP - Cogénération - Cogeneración   |                              |                            |  |                                 |                            |                       |   | - 6 022   |                                 |  |                               | 1 041                                   |                          | - 4 981       |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |                            |                       |   | - 3 291   |                                 |  |                               | 1 490                                   |                          | - 1 801       |
| Charcoal - Charbon - Carbón   |                              |                            |  |                                 |                            |                       |   |   |                                 |  |                               |   |                          |               |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |  |                                 |                            |                       |   |   |                                 |  |                               | - 817                                   |                          | - 2 284       |
| Other - Autres - Otras  |                              |                            |  |                                 |                            |                       |   |   |                                 |  |                               | - 1 356                                 |                          | - 1 356       |
| Own use - Consomm. propre - Uso propio  |                              |                            |  |                                 |                            |                       |   |   |                                 |  |                               |   |                          |               |
| Distribution - Distribution - Distribución  |                              |                            |  |                                 |                            |                       |   |   |                                 |  |                               |   |                          |               |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |                                 |                            |                       |   |   |                                 |  |                               |   |                          |               |
| <b>Total - Total - Total</b>  |                              |                            |  |                                 |                            |                       |   | <b>51 008</b>   |                                 |  |                               | <b>5 614</b>                            |                          | <b>69 125</b> |
| Industry - Industrie - Industria  |                              |                            |  |                                 |                            |                       |   | 25 619  |                                 |  |                               | 3 019                                   |                          | 28 639        |
| Transport - Transport - Transporte  |                              |                            |  |                                 |                            |                       |   |   |                                 |  |                               | 33                                      |                          | 33            |
| Commerce - Commerce - Comercial   |                              |                            |  |                                 |                            |                       |   | 25 389  |                                 |  |                               | 2 886                                   |                          | 2 886         |
| Residential - Résidentiel - Residencial   |                              |                            |  |                                 |                            |                       |   |   |                                 |  |                               | 5 614                                   |                          | 35 875        |
| Other - Autres - Otros  |                              |                            |  |                                 |                            |                       |   |   |                                 |  |                               | 1 693                                   |                          | 1 693         |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |                                 |                            |                       |   |   |                                 |  |                               |   |                          |               |
| <b>Total - Total - Total</b>  | <b>8 548</b>                 | <b>1 320</b>               | <b>1 054</b>                                   |                                 |                            |                       |   | <b>52 590</b>   |                                 |  |                               | <b>5 614</b>                            |                          | <b>69 125</b> |
| Electricity - Électricité - Electrica   | 8 548                        | 1 320                      | 1 054  |                                 |                            |                       |   | 1 582   |                                 |  |                               |   |                          | 12 503        |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |                            |                       |   |   |                                 |  |                               |   |                          |               |
| Direct use - Utilisation directe - Uso directo  |                              |                            |  |                                 |                            |                       |   | 51 008  |                                 |  |                               | 5 614                                   |                          | 56 622        |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |                                 |                            |                       |   |   |                                 |  |                               |   |                          |               |
| Electricity - Électricité - Electrica (in/en GWh)   | 2 852                        | 441                        | 352  |                                 |                            |                       |   | 528   |                                 |  |                               |   |                          | 4 172         |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |  |                                 |                            |                       |   |   |                                 |  |                               |   |                          |               |

| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Éolica | Solar - Solaire - Solar                        |                                 | Geothermal<br>Géothermique | Other RE<br>Autres ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primaires -<br>Biocombustibles primarios |                                 | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total         |
|---|------------------------------|----------------------------|--|---------------------------------|----------------------------|-----------------------|---|---|---------------------------------|--|-------------------------------|---|--------------------------|---------------|
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica |                            |                       |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás                      |                               |   |                          |               |
| <b>Primary energy - Énergie primaire - Energía primaria</b>   |                              |                            |  |                                 |                            |                       |   |   |                                 |  |                               |   |                          |               |
| Production - Production - Generación  | 11 653                       | 431                        | 1 262  |                                 |                            |                       |   | 68 145  |                                 |  |                               | - 2                                     |                          | 81 490        |
| Imports - Importations - Importaciones  |                              |                            |  |                                 |                            |                       |   |   |                                 |  |                               |   |                          | - 2           |
| Exports - Exportations - Exportaciones  |                              |                            |  |                                 |                            |                       |   |   |                                 |  |                               |   |                          |               |
| Stock - Stocks - Inventario (+/-)   |                              |                            |  |                                 |                            |                       |   |   |                                 |  |                               |   |                          |               |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>11 653</b>                | <b>431</b>                 | <b>1 262</b>                                   |                                 |                            |                       |   | <b>68 145</b>   |                                 |  |                               | <b>- 2</b>                              |                          | <b>81 488</b> |
| <i>Differences - écarts - Diferencias</i>   |                              |                            |  |                                 |                            |                       |   |   |                                 |  |                               |   |                          | - 571         |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |                                 |                            |                       |   |   |                                 |  |                               |   |                          |               |
| Electricity - Électricité - Electrica   | - 11 653                     | - 431                      | - 1 262  |                                 |                            |                       |   | - 10 206  |                                 |  |                               | 14 324                                  |                          | - 9 227       |
| CHP - Cogénération - Cogeneración   |                              |                            |  |                                 |                            |                       |   | - 6 598   |                                 |  |                               | 658                                     |                          | - 5 940       |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |                            |                       |   |   |                                 |  |                               |   |                          |               |
| Charcoal - Charbon - Carbón   |                              |                            |  |                                 |                            |                       |   |   |                                 |  |                               |   |                          |               |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |  |                                 |                            |                       |   |   |                                 |  |                               |   |                          |               |
| Other - Autres - Otras  |                              |                            |  |                                 |                            |                       |   |   |                                 |  |                               |   |                          |               |
| Own use - Consomm. propre - Uso propio  |                              |                            |  |                                 |                            |                       |   |   |                                 |  |                               |   |                          |               |
| Distribution - Distribution - Distribución  |                              |                            |  |                                 |                            |                       |   |   |                                 |  |                               |   |                          |               |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |                                 |                            |                       |   |   |                                 |  |                               |   |                          |               |
| <b>Total - Total - Total</b>  |                              |                            |  |                                 |                            |                       |   | <b>46 582</b>   |                                 |  |                               | <b>1 488</b>                            |                          | <b>60 479</b> |
| Industry - Industrie - Industria  |                              |                            |  |                                 |                            |                       |   | 21 339  |                                 |  |                               | 3 027                                   |                          | 24 365        |
| Transport - Transport - Transporte  |                              |                            |  |                                 |                            |                       |   |   |                                 |  |                               | 34                                      |                          | 34            |
| Commerce - Commerce - Comercial   |                              |                            |  |                                 |                            |                       |   | 25 243  |                                 |  |                               | 3 017                                   |                          | 3 017         |
| Residential - Résidentiel - Residencial   |                              |                            |  |                                 |                            |                       |   |   |                                 |  |                               | 5 009                                   |                          | 31 740        |
| Other - Autres - Otros  |                              |                            |  |                                 |                            |                       |   |   |                                 |  |                               | 1 322                                   |                          | 1 322         |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |                                 |                            |                       |   |   |                                 |  |                               |   |                          |               |
| <b>Total - Total - Total</b>  | <b>9 651</b>                 | <b>357</b>                 | <b>1 045</b>                                   |                                 |                            |                       |   | <b>47 938</b>   |                                 |  |                               | <b>1 488</b>                            |                          | <b>60 479</b> |
| Electricity - Électricité - Electrica   | 9 651                        | 357                        | 1 045  |                                 |                            |                       |   | 1 356   |                                 |  |                               |   |                          | 12 409        |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |                            |                       |   |   |                                 |  |                               |   |                          |               |
| Direct use - Utilisation directe - Uso directo  |                              |                            |  |                                 |                            |                       |   | 46 582  |                                 |  |                               | 1 488                                   |                          | 48 070        |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |                                 |                            |                       |   |   |                                 |  |                               |   |                          |               |
| Electricity - Électricité - Electrica (in/en GWh)   | 3 237                        | 120                        | 351  |                                 |                            |                       |   | 455   |                                 |  |                               |   |                          | 4 162         |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |  |                                 |                            |                       |   |   |                                 |  |                               |   |                          |               |

## Bosnia and Herzegovina

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                               |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios   |                                 |                             | Pellets/briq.<br>Granules/briq.<br>Pellets/briq.      | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total         |
|---|------------------------------|----------------------------|---|---------------------------------|--|-----------------------------------|---|---|---------------------------------|-----------------------------|---|-------------------------------|---|--------------------------|---------------|
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás |   |                               |   |                          |               |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaaria |                                 |  |                                   |   |   |                                 |                             | Primary energy - Énergie primaire - Energía primaaria |                               |   |                          |               |
| Production - Production - Generación  | 16 963                       | 1 408                      | 410   |                                 |  |                                   |   | 63 407  |                                 | 91                          | 20  | 29                            | 4 415                                   |                          | 82 279        |
| Imports - Importations - Importaciones  |                              |                            |   |                                 |  |                                   |   | 31  |                                 |                             | - 1104  | - 703                         | - 7 907                                 |                          | 4 495         |
| Exports - Exportations - Exportaciones  |                              |                            |   |                                 |  |                                   |   | - 5 087   |                                 |                             |   |                               |   |                          | - 14 802      |
| Stock - Stocks - Inventario (+/-)   | 16 963                       | 1 408                      | 410   |                                 |  |                                   |   | 58 351  |                                 | 91                          | - 1084  | - 674                         | - 3 492                                 |                          | 71 973        |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>16 963</b>                | <b>1 408</b>               | <b>410</b>  |                                 |  |                                   |   | <b>0</b>  |                                 | <b>91</b>                   | <b>- 1084</b>   | <b>- 674</b>                  | <b>- 3 492</b>                          |                          | <b>71 973</b> |
| <i>Differences - écarts - Diferencias</i>   |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          | <b>3</b>      |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |   |                                 |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                                 |                             |   |                               |   |                          |               |
| Electricity - Électricité - Electrica   | - 16 963                     | - 1 408                    | - 410   |                                 |  |                                   |   | - 305   |                                 | - 45                        |   |                               | 18 889                                  |                          | - 242         |
| CHP - Cogénération - Cogeneración   |                              |                            |   |                                 |  |                                   |   | - 283   |                                 |                             |   |                               | 4                                       | 193                      | - 86          |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |  |                                   |   | - 1 091   |                                 |                             |   |                               |   | 873                      | - 218         |
| Charcoal - Charbon - Carbón   |                              |                            |   |                                 |  |                                   |   | - 2 197   |                                 |                             |   |                               |   |                          | - 1 318       |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |   |                                 |  |                                   |   | - 2 527   |                                 |                             |   |                               |   |                          | 0             |
| Other - Autres - Otras  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          | - 1 706       |
| Own use - Consomm. propre - Uso propio  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          | - 1 458       |
| Distribution - Distribution - Distribución  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          | - 1 546       |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |   |                                 |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                                 |                             |   |                               |   |                          |               |
| <b>Total - Total - Total</b>  |                              |                            |   |                                 |  |                                   |   | <b>51 948</b>   |                                 | <b>46</b>                   | <b>1 443</b>  | <b>205</b>                    | <b>12 246</b>                           | <b>971</b>               | <b>66 860</b> |
| Industry - Industrie - Industria  |                              |                            |   |                                 |  |                                   |   | 351   |                                 | 46                          |   |                               | 3 282                                   | 7                        | 3 686         |
| Transport - Transport - Transporte  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               | 73                                      |                          | 73            |
| Commerce - Commerce - Comercial   |                              |                            |   |                                 |  |                                   |   | 2 884   |                                 |                             |   |                               | 88                                      | 3 132                    | 6 342         |
| Residential - Résidentiel - Residencial   |                              |                            |   |                                 |  |                                   |   | 48 713  |                                 |                             |   |                               | 117                                     | 5 685                    | 56 685        |
| Other - Autres - Otros  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               | 74                                      |                          | 74            |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |   |                                 |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                                 |                             |   |                               |   |                          |               |
| <b>Total - Total - Total</b>  | <b>10 995</b>                | <b>912</b>                 | <b>266</b>  |                                 |  |                                   |   | <b>52 975</b>   |                                 | <b>62</b>                   | <b>1 443</b>  | <b>205</b>                    |   |                          | <b>66 860</b> |
| Electricity - Électricité - Electrica   | 10 995                       | 912                        | 266   |                                 |  |                                   |   | 56  |                                 | 16                          |   |                               |   |                          | 12 246        |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |  |                                   |   | 971   |                                 |                             |   |                               |   |                          | 971           |
| Direct use - Utilisation directe - Uso directo  |                              |                            |   |                                 |  |                                   |   | 51 948  |                                 | 46                          | 1 443   | 205                           |   |                          | 53 642        |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |   |                                 |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                                 |                             |   |                               |   |                          |               |
| Electricity - Électricité - Electrica (in/en GWh)   | 4 712                        | 391                        | 114   |                                 |  |                                   |   | 24  |                                 | 7                           |   |                               |   |                          | 5 248         |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |   |                                 |  |                                   |   | 1 066   |                                 |                             |   |                               |   |                          | 1 066         |
| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                               |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios   |                                 |                             | Pellets/briq.<br>Granules/briq.<br>Pellets/briq.      | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total         |
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás |   |                               |   |                          |               |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaaria |                                 |  |                                   |   |   |                                 |                             | Primary energy - Énergie primaire - Energía primaaria |                               |   |                          |               |
| Production - Production - Generación  | 24 084                       | 1 375                      | 259   |                                 |  |                                   |   | 62 188  |                                 | 98                          | 47  | 29                            | 4 548                                   |                          | 88 004        |
| Imports - Importations - Importaciones  |                              |                            |   |                                 |  |                                   |   | 55  |                                 |                             | - 1 275   | - 586                         | - 11 185                                |                          | 4 680         |
| Exports - Exportations - Exportaciones  |                              |                            |   |                                 |  |                                   |   | - 7 402   |                                 |                             |   |                               |   |                          | - 20 448      |
| Stock - Stocks - Inventario (+/-)   | 24 084                       | 1 375                      | 259   |                                 |  |                                   |   | 54 841  |                                 | 98                          | - 1 228   | - 557                         | - 6 636                                 |                          | 72 236        |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>24 084</b>                | <b>1 375</b>               | <b>259</b>  |                                 |  |                                   |   | <b>0</b>  |                                 | <b>98</b>                   | <b>- 1 228</b>  | <b>- 557</b>                  | <b>- 6 636</b>                          |                          | <b>1</b>      |
| <i>Differences - écarts - Diferencias</i>   |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |               |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |   |                                 |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                                 |                             |   |                               |   |                          |               |
| Electricity - Électricité - Electrica   | - 24 084                     | - 1 375                    | - 259   |                                 |  |                                   |   | - 537   |                                 | - 49                        |   |                               | 25 866                                  |                          | - 438         |
| CHP - Cogénération - Cogeneración   |                              |                            |   |                                 |  |                                   |   | - 257   |                                 |                             |   |                               | 4                                       | 204                      | - 49          |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |  |                                   |   | - 1 268   |                                 |                             |   |                               |   | 1 014                    | - 254         |
| Charcoal - Charbon - Carbón   |                              |                            |   |                                 |  |                                   |   | - 2 338   |                                 |                             |   |                               |   |                          | - 1 400       |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |   |                                 |  |                                   |   | - 2 274   |                                 |                             |   |                               |   |                          | 0             |
| Other - Autres - Otras  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |               |
| Own use - Consomm. propre - Uso propio  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          | - 2 263       |
| Distribution - Distribution - Distribución  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          | - 1 957       |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |   |                                 |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                                 |                             |   |                               |   |                          |               |
| <b>Total - Total - Total</b>  |                              |                            |   |                                 |  |                                   |   | <b>48 167</b>   |                                 | <b>49</b>                   | <b>1 046</b>  | <b>381</b>                    | <b>15 115</b>                           | <b>1 117</b>             | <b>65 875</b> |
| Industry - Industrie - Industria  |                              |                            |   |                                 |  |                                   |   | 263   |                                 | 49                          |   |                               | 4 392                                   | 5                        | 4 709         |
| Transport - Transport - Transporte  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               | 77                                      |                          | 77            |
| Commerce - Commerce - Comercial   |                              |                            |   |                                 |  |                                   |   | 1 864   |                                 |                             |   |                               | 117                                     | 3 705                    | 5 953         |
| Residential - Résidentiel - Residencial   |                              |                            |   |                                 |  |                                   |   | 46 040  |                                 |                             |   |                               | 264                                     | 6 855                    | 55 051        |
| Other - Autres - Otros  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               | 85                                      |                          | 85            |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |   |                                 |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                                 |                             |   |                               |   |                          |               |
| <b>Total - Total - Total</b>  | <b>14 072</b>                | <b>803</b>                 | <b>151</b>  |                                 |  |                                   |   | <b>49 360</b>   |                                 | <b>62</b>                   | <b>1 046</b>  | <b>381</b>                    |   |                          | <b>65 875</b> |
| Electricity - Électricité - Electrica   | 14 072                       | 803                        | 151   |                                 |  |                                   |   | 76  |                                 | 13                          |   |                               |   |                          | 15 115        |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |  |                                   |   | 117   |                                 |                             |   |                               |   |                          | 1 117         |
| Direct use - Utilisation directe - Uso directo  |                              |                            |   |                                 |  |                                   |   | 48 167  |                                 | 49                          | 1 046   | 381                           |   |                          | 49 643        |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |   |                                 |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                                 |                             |   |                               |   |                          |               |
| Electricity - Électricité - Electrica (in/en GWh)   | 6 690                        | 382                        | 72  |                                 |  |                                   |   | 36  |                                 | 6                           |   |                               |   |                          | 7 186         |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |   |                                 |  |                                   |   | 1 218   |                                 |                             |   |                               |   |                          | 1 218         |

## Botswana

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                                     |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios   |                                 |                             | Pellets/briq.<br>Granules/briq.<br>Pellets/briq.            | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total        |
|---|------------------------------|----------------------------|---|---------------------------------|--|-----------------------------------|---|---|---------------------------------|-----------------------------|---|-------------------------------|---|--------------------------|--------------|
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica              | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás |   |                               |   |                          |              |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaria        |                                 |  |                                   |   |   |                                 |                             | Primary energy - Énergie primaire - Energía primaria        |                               |   |                          |              |
| Production - Production - Generación  |                              |                            |   | 29                              |  |                                   |   |   |                                 | 7 935                       |   | 0                             |   |                          | 7 964        |
| Imports - Importations - Importaciones  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          | 19           |
| Exports - Exportations - Exportaciones  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |              |
| Stock - Stocks - Inventario (+/-)   |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |              |
| <b>Supply - Approvisionnement - Oferta</b>  |                              |                            |   | <b>29</b>                       |  |                                   |   |   |                                 | <b>7 935</b>                |   | <b>0</b>                      |   |                          | <b>7 983</b> |
| Differences - Écart - Diferencias   |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          | - 1          |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |   |                                 |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                                 |                             |   |                               |   |                          |              |
| Electricity - Électricité - Eléctrica   |                              |                            |   | - 29                            |  |                                   |   |   |                                 |                             |   |                               |   |                          |              |
| CHP - Cogénération - Cogeneración   |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |              |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |              |
| Charcoal - Charbon - Carbón   |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |              |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |              |
| Other - Autres - Otras  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |              |
| Own use - Consomm. propre - Uso propio  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |              |
| Distribution - Distribution - Distribución  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |              |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |   |                                 |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                                 |                             |   |                               |   |                          |              |
| <b>Total - Total - Total</b>  |                              |                            |   |                                 |  |                                   |   | <b>2 823</b>  |                                 | <b>0</b>                    |   | <b>2 314</b>                  |   | <b>37</b>                | <b>5 174</b> |
| Industry - Industrie - Industria  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          | 8            |
| Transport - Transport - Transporte  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |              |
| Commerce - Commerce - Comercial   |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |              |
| Residential - Résidentiel - Residencial   |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |              |
| Other - Autres - Otros  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |              |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |   |                                 |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                                 |                             |   |                               |   |                          |              |
| <b>Total - Total - Total</b>  |                              |                            |   | <b>37</b>                       |  |                                   |   | <b>2 823</b>  |                                 | <b>0</b>                    |   | <b>2 314</b>                  |   | <b>37</b>                | <b>5 174</b> |
| Electricity - Électricité - Eléctrica   |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |              |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |              |
| Direct use - Utilisation directe - Uso directo  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |              |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |   |                                 |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                                 |                             |   |                               |   |                          |              |
| Electricity - Électricité - Eléctrica (in/en GWh)   |                              |                            |   |                                 | 8  |                                   |   |   |                                 |                             |   |                               |   |                          | 8            |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |              |
| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                                     |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios   |                                 |                             | Pellets/briq.<br>Granules/briq.<br>Pellets/briq.            | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total        |
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica              | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás |   |                               |   |                          |              |
|   |                              |                            | <b>Primary energy - Énergie primaire - Energía primaria</b> |                                 |  |                                   |   |   |                                 |                             | <b>Primary energy - Énergie primaire - Energía primaria</b> |                               |   |                          |              |
| Production - Production - Generación  |                              |                            |   | 29                              |  |                                   |   |   |                                 | 7 934                       |   | 0                             |   |                          | 7 963        |
| Imports - Importations - Importaciones  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          | 19           |
| Exports - Exportations - Exportaciones  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |              |
| Stock - Stocks - Inventario (+/-)   |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |              |
| <b>Supply - Approvisionnement - Oferta</b>  |                              |                            |   | <b>29</b>                       |  |                                   |   |   |                                 | <b>7 934</b>                |   | <b>0</b>                      |   | <b>19</b>                | <b>7 982</b> |
| Differences - Écart - Diferencias   |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          | - 1          |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |   |                                 |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                                 |                             |   |                               |   |                          |              |
| Electricity - Électricité - Eléctrica   |                              |                            |   | - 29                            |  |                                   |   |   |                                 |                             |   |                               |   |                          |              |
| CHP - Cogénération - Cogeneración   |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |              |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |              |
| Charcoal - Charbon - Carbón   |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |              |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |              |
| Other - Autres - Otras  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |              |
| Own use - Consomm. propre - Uso propio  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |              |
| Distribution - Distribution - Distribución  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |              |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |   |                                 |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                                 |                             |   |                               |   |                          |              |
| <b>Total - Total - Total</b>  |                              |                            |   |                                 |  |                                   |   | <b>2 822</b>  |                                 | <b>0</b>                    |   | <b>2 314</b>                  |   | <b>37</b>                | <b>5 173</b> |
| Industry - Industrie - Industria  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          | 7            |
| Transport - Transport - Transporte  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |              |
| Commerce - Commerce - Comercial   |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |              |
| Residential - Résidentiel - Residencial   |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |              |
| Other - Autres - Otros  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |              |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |   |                                 |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                                 |                             |   |                               |   |                          |              |
| <b>Total - Total - Total</b>  |                              |                            |   | <b>37</b>                       |  |                                   |   | <b>2 822</b>  |                                 | <b>0</b>                    |   | <b>2 314</b>                  |   | <b>37</b>                | <b>5 173</b> |
| Electricity - Électricité - Eléctrica   |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |              |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |              |
| Direct use - Utilisation directe - Uso directo  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |              |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |   |                                 |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                                 |                             |   |                               |   |                          |              |
| Electricity - Électricité - Eléctrica (in/en GWh)   |                              |                            |   |                                 | 8  |                                   |   |   |                                 |                             |   |                               |   |                          |              |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |              |

## Brazil

## Brazil

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Éolica | Solar - Solaire - Solar                        |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                                 |                             | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbon | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total            |
|---|------------------------------|----------------------------|--|---------------------------------|--|-----------------------------------|---|---|---------------------------------|-----------------------------|--|-------------------------------|---|--------------------------|------------------|
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás |  |                               |   |                          |                  |
| <b>Primary energy - Énergie primaire - Energía primaria</b>   |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |                  |
| Production - Production - Generación  | 1 537 609                    | 293 874                    | 108 498  |                                 |  |                                   |   | 3 215 686   | 874 362                         | 27 320                      |  |                               | 56 476                                  |                          | 6 057 348        |
| Imports - Importations - Importaciones  |                              |                            |  |                                 |  |                                   |   | 2 061   | - 49 094                        |                             |  |                               | - 15 720                                |                          | 58 537           |
| Exports - Exportations - Exportaciones  |                              |                            |  |                                 |  |                                   |   | 6 739   | 6 739                           |                             |  |                               |   |                          | - 64 814         |
| Stock - Stocks - Inventario (+/-)   |                              |                            |  |                                 |  |                                   |   | 3 215 686   | 834 068                         | 27 320                      |  |                               | 40 756                                  |                          | 6 739            |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>1 537 609</b>             | <b>293 874</b>             | <b>108 498</b>                                 |                                 |  |                                   |   | <b>7</b>  | <b>- 482</b>                    |                             |  |                               | <b>390</b>                              |                          | <b>6 057 810</b> |
| <i>Differences - Ecarts - Diferencias</i>   |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          | <b>- 865</b>     |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |                  |
| Electricity - Electricité - Electrica   | -1 537 609                   | -293 874                   | -108 498                                       |                                 |  |                                   |   | 3 415   | - 4 938                         | - 20 030                    |  |                               | 1 947 924                               |                          | - 13 609         |
| CHP - Cogénération - Cogeneración   |                              |                            |  |                                 |  |                                   |   | - 376 273   | - 260                           | - 7 290                     |  |                               | 190 578                                 |                          | - 193 244        |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          | - 171 995        |
| Charcoal - Charbon - Carbón   |                              |                            |  |                                 |  |                                   |   | - 336 334   |                                 |                             |  |                               | 164 339                                 |                          | - 220 511        |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |  |                                 |  |                                   |   | - 220 511   |                                 |                             |  |                               |   | - 113 033                | - 628 156        |
| Other - Autres - Otras  |                              |                            |  |                                 |  |                                   |   | - 515 122   |                                 |                             |  |                               |   | - 328 356                | - 332 867        |
| Own use - Consomm. propre - Uso propio  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |                  |
| Distribution - Distribution - Distribución  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |                  |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |                  |
| Total - Total - Total   |                              |                            |  |                                 |  |                                   |   | 1 770 869   | 826 306                         |                             |  |                               | 161 910                                 | 1 737 478                | 4 496 563        |
| Industry - Industrie - Industria  |                              |                            |  |                                 |  |                                   |   | 1 342 175   | 5 127                           |                             |  |                               | 144 264                                 | 690 661                  | 2 182 229        |
| Transport - Transport - Transporte  |                              |                            |  |                                 |  |                                   |   |   | 788 205                         | 174                         |  |                               |   | 6 255                    | 794 460          |
| Commerce - Commerce - Comercial   |                              |                            |  |                                 |  |                                   |   | 3 277   |                                 |                             |  |                               | 2 821                                   | 447 329                  | 453 601          |
| Residential - Résidentiel - Residencial   |                              |                            |  |                                 |  |                                   |   | 300 607   | 14 494                          |                             |  |                               | 491 288                                 | 806 390                  | 259 885          |
| Other - Autres - Otros  |                              |                            |  |                                 |  |                                   |   | 124 810   | 32 800                          |                             |  |                               | 331                                     | 101 945                  |                  |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |                  |
| Total - Total - Total   | 1 249 268                    | 238 765                    | 88 151   |                                 |  |                                   |   | 327   | 1 923 661                       | 827 711                     | 6 770  |                               | 161 910                                 |                          | 4 496 563        |
| Electricity - Electricité - Electrica   | 1 249 268                    | 238 765                    | 88 151   |                                 |  |                                   |   | 327   | 152 793                         | 1 404                       | 6 770  |                               | 161 910                                 |                          | 1 737 478        |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |  |                                   |   |   | 1 770 869                       | 826 306                     |  |                               |   |                          | 2 759 085        |
| Direct use - Utilisation directe - Uso directo  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |                  |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |                  |
| Electricity - Electricité - Electrica (in/en GWh)   | 427 114                      | 81 652                     | 30 138   |                                 |  |                                   |   | 112   | 52 239                          | 480                         | 2 315  |                               |   |                          | 594 028          |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |                  |
| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Éolica | Solar - Solaire - Solar                        |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                                 |                             | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbon | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total            |
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás |  |                               |   |                          |                  |
| <b>Primary energy - Énergie primaire - Energía primaria</b>   |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |                  |
| Production - Production - Generación  | 1 306 147                    | 260 230                    | 60 350   | 38 946                          |  |                                   |   | 3 238 795   | 874 362                         | 15 731                      |  |                               | 64 468                                  |                          | 5 794 561        |
| Imports - Importations - Importaciones  |                              |                            |  |                                 |  |                                   |   |   | 9 392                           |                             |  |                               | - 123                                   |                          | 73 860           |
| Exports - Exportations - Exportaciones  |                              |                            |  |                                 |  |                                   |   | - 40 611  |                                 |                             |  |                               |   |                          | - 40 734         |
| Stock - Stocks - Inventario (+/-)   |                              |                            |  |                                 |  |                                   |   | 33 002  |                                 |                             |  |                               |   |                          | 33 002           |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>1 306 147</b>             | <b>260 230</b>             | <b>60 350</b>                                  | <b>38 946</b>                   |  |                                   |   | <b>0</b>  | <b>876 145</b>                  | <b>15 731</b>               |  |                               | <b>64 345</b>                           |                          | <b>5 860 688</b> |
| <i>Differences - Ecarts - Diferencias</i>   |                              |                            |  |                                 |  |                                   |   |   | <b>- 26 541</b>                 |                             |  |                               | <b>- 245</b>                            |                          | <b>- 26 786</b>  |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |                  |
| Electricity - Electricité - Electrica   | -1 306 147                   | -260 230                   | -60 350  |                                 |  |                                   |   | 4 893   | - 5 905                         | - 8 418                     |  |                               | 1 634 434                               |                          | - 11 509         |
| CHP - Cogénération - Cogeneración   |                              |                            |  |                                 |  |                                   |   | - 390 404   | - 267                           | - 7 313                     |  |                               | 193 175                                 |                          | - 204 809        |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          | - 143 989        |
| Charcoal - Charbon - Carbón   |                              |                            |  |                                 |  |                                   |   | - 308 328   |                                 |                             |  |                               | 164 339                                 |                          | - 240 439        |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |  |                                 |  |                                   |   | - 240 439   |                                 |                             |  |                               |   | - 108 230                | - 647 274        |
| Other - Autres - Otras  |                              |                            |  |                                 |  |                                   |   | - 539 045   |                                 |                             |  |                               |   | - 301 920                | - 306 754        |
| Own use - Consomm. propre - Uso propio  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |                  |
| Distribution - Distribution - Distribución  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |                  |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |                  |
| Total - Total - Total   |                              |                            |  |                                 | 38 946                                   | 1 558                             |   |   | 1 755 686                       | 841 026                     |  |                               | 161 910                                 | 1 481 559                | 4 279 127        |
| Industry - Industrie - Industria  |                              |                            |  |                                 |  | 7 400                             |   |   | 1 308 511                       | 5 284                       |  |                               | 141 016                                 | 594 152                  | 2 050 521        |
| Transport - Transport - Transporte  |                              |                            |  |                                 |  | 29 988                            |   |   |                                 | 804 951                     |  |                               |   | 5 570                    | 810 521          |
| Commerce - Commerce - Comercial   |                              |                            |  |                                 |  |                                   |   |   | 3 441                           | 189                         |  |                               | 3 232                                   | 368 381                  | 382 642          |
| Residential - Résidentiel - Residencial   |                              |                            |  |                                 |  |                                   |   |   | 311 526                         |                             |  |                               | 17 281                                  | 419 091                  | 777 886          |
| Other - Autres - Otros  |                              |                            |  |                                 |  |                                   |   |   | 132 208                         | 30 602                      |  |                               | 382                                     | 94 365                   | 257 558          |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |                  |
| Total - Total - Total   | 1 058 834                    | 210 956                    | 48 923   | 38 946                          |  |                                   |   | 223   | 1 908 146                       | 843 161                     | 8 028  |                               | 161 910                                 |                          | 4 279 127        |
| Electricity - Electricité - Electrica   | 1 058 834                    | 210 956                    | 48 923   |                                 |  |                                   |   | 223   | 152 461                         | 2 135                       | 8 028  |                               | 161 910                                 |                          | 1 481 559        |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |  |                                   |   |   | 1 755 686                       | 841 026                     |  |                               |   |                          | 2 797 568        |
| Direct use - Utilisation directe - Uso directo  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |                  |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |                  |
| Electricity - Electricité - Electrica (in/en GWh)   | 362 819                      | 72 286                     | 16 764   |                                 |  |                                   |   | 76  | 52 242                          | 731                         | 2 751  |                               |   |                          | 507 669          |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |                  |

## Brunei Darussalam

## Brunei Darussalam

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                               |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios   |                                 |                             | Pellets/briq.<br>Granules/briq.<br>Pellets/briq.      | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total      |
|---|------------------------------|----------------------------|---|---------------------------------|--|-----------------------------------|---|---|---------------------------------|-----------------------------|---|-------------------------------|---|--------------------------|------------|
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás |   |                               |   |                          |            |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaaria |                                 |  |                                   |   |   |                                 |                             | Primary energy - Énergie primaire - Energía primaaria |                               |   |                          |            |
| Production - Production - Generación  |                              |                            |   | 4                               |  |                                   |   |   |                                 | 132                         |   |                               |   |                          | 136        |
| Imports - Importations - Importaciones  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   | 6                             |   |                          | 6          |
| Exports - Exportations - Exportaciones  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   | - 0                           |   |                          | - 0        |
| Stock - Stocks - Inventario (+/-)   |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |            |
| <b>Supply - Approvisionnement - Oferta</b>  |                              |                            |   |                                 |  |                                   |   |   |                                 | <b>132</b>                  |   |                               | <b>6</b>                                |                          | <b>142</b> |
| Differences - écarts - Diferencias  |                              |                            |   | 4                               |  |                                   |   |   |                                 |                             |   | 0                             |   |                          | 0          |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |   |                                 |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                                 |                             |   |                               |   |                          |            |
| Electricity - Électricité - Electrica   |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               | 4                                       |                          |            |
| CHP - Cogénération - Cogeneración   |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |            |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |            |
| Charcoal - Charbon - Carbón   |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |            |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |            |
| Other - Autres - Otras  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |            |
| Own use - Consomm. propre - Uso propio  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |            |
| Distribution - Distribution - Distribución  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |            |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |   |                                 |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                                 |                             |   |                               |   |                          |            |
| <b>Total - Total - Total</b>  |                              |                            |   |                                 |  |                                   |   |   |                                 | <b>108</b>                  |   |                               | <b>17</b>                               |                          | <b>128</b> |
| Industry - Industrie - Industria  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   | 3                             |   |                          | 0          |
| Transport - Transport - Transporte  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   | 0                             |   |                          |            |
| Commerce - Commerce - Comercial   |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               | 2                                       |                          | 20         |
| Residential - Résidentiel - Residencial   |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   | 92                            |   |                          | 108        |
| Other - Autres - Otros  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               | 14                                      |                          |            |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |   |                                 |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                                 |                             |   |                               |   |                          |            |
| <b>Total - Total - Total</b>  |                              |                            |   |                                 |  |                                   |   |   |                                 | <b>108</b>                  |   |                               | <b>17</b>                               |                          | <b>128</b> |
| Electricity - Électricité - Electrica   |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |            |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |            |
| Direct use - Utilisation directe - Uso directo  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          | 3          |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |   |                                 |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                                 |                             |   |                               |   |                          |            |
| Electricity - Électricité - Electrica (in/en GWh)   |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |            |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          | 1          |
| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                               |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios   |                                 |                             | Pellets/briq.<br>Granules/briq.<br>Pellets/briq.      | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total      |
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás |   |                               |   |                          |            |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaaria |                                 |  |                                   |   |   |                                 |                             | Primary energy - Énergie primaire - Energía primaaria |                               |   |                          |            |
| Production - Production - Generación  |                              |                            |   | 4                               |  |                                   |   |   |                                 | 132                         |   |                               |   |                          | 136        |
| Imports - Importations - Importaciones  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          | 10         |
| Exports - Exportations - Exportaciones  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          | - 0        |
| Stock - Stocks - Inventario (+/-)   |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |            |
| <b>Supply - Approvisionnement - Oferta</b>  |                              |                            |   |                                 |  |                                   |   |   |                                 | <b>132</b>                  |   |                               | <b>10</b>                               |                          | <b>146</b> |
| Differences - écarts - Diferencias  |                              |                            |   | 4                               |  |                                   |   |   |                                 |                             |   |                               |   |                          | 0          |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |   |                                 |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                                 |                             |   |                               |   |                          |            |
| Electricity - Électricité - Electrica   |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               | 4                                       |                          |            |
| CHP - Cogénération - Cogeneración   |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |            |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |            |
| Charcoal - Charbon - Carbón   |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |            |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |            |
| Other - Autres - Otras  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |            |
| Own use - Consomm. propre - Uso propio  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |            |
| Distribution - Distribution - Distribución  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |            |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |   |                                 |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                                 |                             |   |                               |   |                          |            |
| <b>Total - Total - Total</b>  |                              |                            |   |                                 |  |                                   |   |   |                                 | <b>109</b>                  |   |                               | <b>20</b>                               |                          | <b>132</b> |
| Industry - Industrie - Industria  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   | 3                             |   |                          | 0          |
| Transport - Transport - Transporte  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   | 0                             |   |                          |            |
| Commerce - Commerce - Comercial   |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               | 3                                       |                          | 21         |
| Residential - Résidentiel - Residencial   |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   | 92                            |   |                          | 111        |
| Other - Autres - Otros  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   | 17                            |   | 1                        |            |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |   |                                 |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                                 |                             |   |                               |   |                          |            |
| <b>Total - Total - Total</b>  |                              |                            |   |                                 |  |                                   |   |   |                                 | <b>109</b>                  |   |                               | <b>20</b>                               |                          | <b>132</b> |
| Electricity - Électricité - Electrica   |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |            |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |            |
| Direct use - Utilisation directe - Uso directo  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          | 3          |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |   |                                 |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                                 |                             |   |                               |   |                          |            |
| Electricity - Électricité - Electrica (in/en GWh)   |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |            |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          | 1          |

## Bulgaria

| 2022 (In/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                               |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios   |                                   |   | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total  |
|---|------------------------------|----------------------------|---|---------------------------------|--|-----------------------------------|---|---|-----------------------------------|---|--|-------------------------------|---|--------------------------|--|
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás                           |  |                               |   |                          |  |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaaria |                                 |  |                                   |   |   |                                   | Primary energy - Énergie primaire - Energía primaaria |  |                               |   |                          |  |
| Production - Production - Generación  | 13 692                       | 5 397                      | 7 538   | 1 341                           | 1 532                                    | 6 442                             | 1 777                                       | 66 525<br>1 232<br>- 1 410<br>379   | 10 914<br>912<br>- 3 662<br>- 203 | 2 098   | 2 845<br>- 2 386                                 | 158<br>- 36                   | 1 010<br>- 9 390                        |                          | 117 255<br>6 157<br>- 16 885<br>176            |
| Imports - Importations - Importaciones  |                              |                            |   |                                 |  |                                   |   |   |                                   |   |  |                               |   |                          |  |
| Exports - Exportations - Exportaciones  |                              |                            |   |                                 |  |                                   |   |   |                                   |   |  |                               |   |                          |  |
| Stock - Stocks - Inventario (+/-)   |                              |                            |   |                                 |  |                                   |   |   |                                   |   |  |                               |   |                          |  |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>13 692</b>                | <b>5 397</b>               | <b>7 538</b>  | <b>1 341</b>                    | <b>1 532</b>                             | <b>6 442</b>                      | <b>1 777</b>                                | <b>66 725<br/>276</b>   | <b>7 961</b>                      | <b>2 098</b>  | <b>459</b>                                       | <b>122<br/>- 0</b>            | <b>- 8 380<br/>565</b>                  |                          | <b>106 703<br/>815</b>                         |
| Differences - écarts - Diferencias  |                              |                            |   |                                 |  |                                   |   |   |                                   |   |  |                               |   |                          |  |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |   |                                 |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                                   |   |  |                               |   |                          |  |
| Electricity - Électricité - Electrica   | - 13 692                     | - 5 397                    | - 7 538   |                                 |  |                                   |   | - 4 545<br>- 19 905   |                                   | - 474<br>- 1208                                       |  |                               | 28 265<br>6 438                         | 5 722<br>619             | - 3 380<br>- 8 952<br>- 133<br>- 50            |
| CHP - Cogénération - Cogeneración   |                              |                            |   |                                 |  |                                   |   |   |                                   |   |  |                               |   |                          |  |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |  |                                   |   | - 115<br>- 3 649  |                                   | - 752   |  | 65                            |   |                          |  |
| Charcoal - Charbon - Carbón   |                              |                            |   |                                 |  |                                   |   |   |                                   |   |  |                               |   |                          |  |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |   |                                 |  |                                   |   |   |                                   |   |  |                               |   |                          |  |
| Other - Autres - Otras  |                              |                            |   |                                 |  |                                   |   |   |                                   |   |  |                               |   |                          |  |
| Own use - Consomm. propre - Uso propio  |                              |                            |   |                                 |  |                                   |   |   |                                   |   |  |                               |   |                          |  |
| Distribution - Distribution - Distribución  |                              |                            |   |                                 |  |                                   |   |   |                                   |   |  |                               |   |                          |  |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |   |                                 |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                                   |   |  |                               |   |                          |  |
| Total - Total - Total   |                              |                            |   | 1 341                           | 1 532                                    | 6 442                             | 1 777                                       | <b>38 787<br/>9 098</b>   | <b>7 961</b>                      | <b>416</b>  | <b>3 356</b>                                     | <b>187</b>                    | <b>21 110<br/>6 603</b>                 | <b>4 352</b>             | <b>87 261</b>                                  |
| Industry - Industrie - Industria  |                              |                            |   |                                 |  |                                   |   |   |                                   |   |  |                               |   |                          | <b>18 405</b>                                  |
| Transport - Transport - Transporte  |                              |                            |   | 778                             | 1 532                                    | 6 442                             |   |   | 7 961                             |   |  |                               |   |                          | <b>8 273</b>                                   |
| Commerce - Commerce - Comercial   |                              |                            |   | 563                             |  |                                   |   |   |                                   |   |  |                               |   |                          |  |
| Residential - Résidentiel - Residencial   |                              |                            |   |                                 |  |                                   |   | 6 101<br>23 448<br>140  |                                   | 140   |  |                               |   |                          | <b>21 930</b>                                  |
| Other - Autres - Otros  |                              |                            |   |                                 |  |                                   |   |   |                                   |   |  |                               |   |                          | <b>38 000</b>                                  |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |   |                                 |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                                   |   |  |                               |   |                          |  |
| Total - Total - Total   | 8 329                        | 3 283                      | 4 585   | 1 341                           | 1 532                                    | 6 442                             | 1 777                                       | <b>47 038</b>   | <b>7 961</b>                      | <b>960</b>  | <b>3 827</b>                                     | <b>187</b>                    |   |                          | <b>87 261</b>                                  |
| Electricity - Électricité - Electrica   | 8 329                        | 3 283                      | 4 585   |                                 |  |                                   |   | 4 495   |                                   | 418   |  |                               |   |                          | <b>21 110</b>                                  |
| Heat - Chaleur - Calor  |                              |                            |   | 1 341                           | 1 532                                    | 6 442                             | 1 777                                       | 3 755   |                                   | 126   |  | 471                           |   |                          | <b>4 352</b>                                   |
| Direct use - Utilisation directe - Uso directo  |                              |                            |   |                                 |  |                                   |   | 38 787  | 7 961                             | 416   | 3 356  | 187                           |   |                          | <b>61 799</b>                                  |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |   |                                 |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                                   |   |  |                               |   |                          |  |
| Electricity - Électricité - Electrica (in/en GWh)   | 3 803                        | 1 499                      | 2 094   |                                 |  |                                   |   | 2 053<br>4 938  |                                   | 191   |  |                               |   |                          | <b>9 640</b>                                   |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |   |                                 |  |                                   |   |   | 166                               | 619   |  |                               |   |                          | <b>5 722</b>                                   |
| 2021 (In/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                               |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios   |                                   |   | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total  |
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás                           |  |                               |   |                          |  |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaaria |                                 |  |                                   |   |   |                                   | Primary energy - Énergie primaire - Energía primaaria |  |                               |   |                          |  |
| Production - Production - Generación  | 17 349                       | 5 161                      | 5 280   | 1 222                           | 1 512                                    | 5 480                             | 1 779                                       | 76 257<br>970<br>- 1 875<br>- 93  | 7 977<br>1 671<br>- 2 682<br>48   | 2 499   | 2 239<br>- 2 463                                 | 152<br>- 58                   | 1 449<br>- 8 297                        |                          | <b>124 515<br/>6 481<br/>- 15 374<br/>- 45</b> |
| Imports - Importations - Importaciones  |                              |                            |   |                                 |  |                                   |   |   |                                   |   |  |                               |   |                          |  |
| Exports - Exportations - Exportaciones  |                              |                            |   |                                 |  |                                   |   |   |                                   |   |  |                               |   |                          |  |
| Stock - Stocks - Inventario (+/-)   |                              |                            |   |                                 |  |                                   |   |   |                                   |   |  |                               |   |                          |  |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>17 349</b>                | <b>5 161</b>               | <b>5 280</b>  | <b>1 222</b>                    | <b>1 512</b>                             | <b>5 480</b>                      | <b>1 779</b>                                | <b>75 259<br/>25</b>  | <b>7 014</b>                      | <b>2 499</b>  | <b>- 224</b>                                     | <b>95</b>                     | <b>- 6 848<br/>303</b>                  | <b>39</b>                | <b>115 576<br/>368</b>                         |
| Differences - écarts - Diferencias  |                              |                            |   |                                 |  |                                   |   |   |                                   |   |  |                               |   |                          |  |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |   |                                 |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                                   |   |  |                               |   |                          |  |
| Electricity - Électricité - Electrica   | - 17 349                     | - 5 161                    | - 5 280   |                                 |  |                                   |   | - 4 196<br>- 25 648<br>- 143<br>- 3 649   |                                   | - 568<br>- 1 498                                      |  |                               | 29 315<br>7 795                         | 7 901<br>565             | - 3 238<br>- 11 451<br>- 170<br>- 62           |
| CHP - Cogénération - Cogeneración   |                              |                            |   |                                 |  |                                   |   |   |                                   |   |  |                               |   |                          |  |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |  |                                   |   |   |                                   |   |  |                               |   |                          |  |
| Charcoal - Charbon - Carbón   |                              |                            |   |                                 |  |                                   |   |   |                                   |   |  |                               |   |                          |  |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |   |                                 |  |                                   |   |   |                                   |   |  |                               |   |                          |  |
| Other - Autres - Otras  |                              |                            |   |                                 |  |                                   |   |   |                                   |   |  |                               |   |                          |  |
| Own use - Consomm. propre - Uso propio  |                              |                            |   |                                 |  |                                   |   |   |                                   |   |  |                               |   |                          |  |
| Distribution - Distribution - Distribución  |                              |                            |   |                                 |  |                                   |   |   |                                   |   |  |                               |   |                          |  |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |   |                                 |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                                   |   |  |                               |   |                          |  |
| Total - Total - Total   |                              |                            |   | 1 222                           | 1 512                                    | 5 480                             | 1 779                                       | <b>41 648<br/>8 046</b>   | <b>7 014</b>                      | <b>433</b>  | <b>2 690</b>                                     | <b>176</b>                    | <b>24 161<br/>7 562</b>                 | <b>5 267</b>             | <b>91 381</b>                                  |
| Industry - Industrie - Industria  |                              |                            |   |                                 |  |                                   |   |   | 7 014                             |   |  |                               |   |                          | <b>18 343</b>                                  |
| Transport - Transport - Transporte  |                              |                            |   | 709                             | 1 512                                    | 5 480                             |   |   |                                   |   |  |                               |   |                          | <b>7 365</b>                                   |
| Commerce - Commerce - Comercial   |                              |                            |   | 513                             |  |                                   |   |   |                                   |   |  |                               |   |                          | <b>20 542</b>                                  |
| Residential - Résidentiel - Residencial   |                              |                            |   |                                 |  |                                   |   | 4 727<br>28 748<br>127  |                                   | 131   |  |                               |   |                          | <b>44 379</b>                                  |
| Other - Autres - Otros  |                              |                            |   |                                 |  |                                   |   |   |                                   |   | 2 690  |                               |   |                          | <b>752</b>                                     |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |   |                                 |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                                   |   |  |                               |   |                          |  |
| Total - Total - Total   | 11 295                       | 3 360                      | 3 437   | 1 222                           | 1 512                                    | 5 480                             | 1 779                                       | <b>51 993</b>   | <b>7 014</b>                      | <b>1 047</b>  | <b>3 067</b>                                     | <b>176</b>                    |   |                          | <b>91 381</b>                                  |
| Electricity - Électricité - Electrica   | 11 295                       | 3 360                      | 3 437   |                                 |  |                                   |   | 5 561<br>4 783<br>41 648  |                                   | 507<br>107<br>7 014                                   |  |                               |   |                          | <b>24 161</b>                                  |
| Heat - Chaleur - Calor  |                              |                            |   | 1 222                           | 1 512                                    | 5 480                             | 1 779                                       |   |                                   | 377<br>2 690  |  |                               |   |                          | <b>5 267</b>                                   |
| Direct use - Utilisation directe - Uso directo  |                              |                            |   |                                 |  |                                   |   |   |                                   |   | 176  |                               |   |                          | <b>61 953</b>                                  |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |   |                                 |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                                   |   |  |                               |   |                          |  |
| Electricity - Électricité - Electrica (in/en GWh)   | 4 819                        | 1 434                      | 1 467   |                                 |  |                                   |   | 2 373<br>7 175  |                                   | 216<br>160  |  |                               |   |                          | <b>10 308</b>                                  |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |   |                                 |  |                                   |   |   |                                   | 565   |  |                               |   |                          | <b>7 901</b>                                   |

## Burkina Faso

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Eoliennes<br>Eólica | Solar - Solaire - Solar                              |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios   |                                 |                             | Pellets/briq.<br>Granules/briq.<br>Pellets/briq.     | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Electricidad | Heat<br>Chaleur<br>Calor | Total          |                |
|---|------------------------------|-----------------------------|--|---------------------------------|--|-----------------------------------|---|---|---------------------------------|-----------------------------|--|-------------------------------|--|--------------------------|----------------|----------------|
|   |                              |                             | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica       | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás |  |                               |  |                          |                |                |
|   |                              |                             | Primary energy - Énergie primaire - Energía primaria |                                 |  |                                   |   |   |                                 |                             | Primary energy - Énergie primaire - Energía primaria |                               |  |                          |                |                |
| Production - Production - Generación  | 296                          |                             |  | 335                             |  |                                   |   |   |                                 | 3                           | 108  |                               |  | 1 278                    | 742            |                |
| Imports - Importations - Importaciones  |                              |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  |                          | 1 278          |                |
| Exports - Exportations - Exportaciones  |                              |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  |                          |                |                |
| Stock - Stocks - Inventario (+/-)   |                              |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  |                          |                |                |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>296</b>                   |                             |  | <b>335</b>                      |  |                                   |   |   |                                 | <b>3</b>                    | <b>108</b>   |                               |  |                          | <b>2 020</b>   |                |
| Differences - Ecarts - Diferencias  |                              |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  |                          |                |                |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                             |  |                                 |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                                 |                             |  |                               |  |                          |                |                |
| Electricity - Électricité - Electrica   | - 296                        |                             |  | - 335                           |  |                                   |   |   |                                 | - 3                         | - 11   |                               |  | 636                      | - 10           |                |
| CHP - Cogénération - Cogeneración   |                              |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  |                          |                |                |
| Heat - Chaleur - Calor  |                              |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  |                          |                |                |
| Charcoal - Charbon - Carbón   |                              |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  |                          |                |                |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  |                          |                |                |
| Other - Autres - Otras  |                              |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  |                          |                |                |
| Own use - Consomm. propre - Uso propio  |                              |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  |                          |                |                |
| Distribution - Distribution - Distribución  |                              |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  |                          |                |                |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                             |  |                                 |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                                 |                             |  |                               |  |                          |                |                |
| Total - Total - Total   |                              |                             |  |                                 |  |                                   |   |   |                                 | 97                          |  |                               |  | 1 694                    | 1 792          |                |
| Industry - Industrie - Industria  |                              |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  | 904                      |                |                |
| Transport - Transport - Transporte  |                              |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  |                          |                |                |
| Commerce - Commerce - Comercial   |                              |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  |                          | 214            |                |
| Residential - Résidentiel - Residencial   |                              |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  |                          | 330            |                |
| Other - Autres - Otros  |                              |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  |                          | 344            |                |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                             |  |                                 |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                                 |                             |  |                               |  |                          |                |                |
| <b>Total - Total - Total</b>  | <b>790</b>                   |                             |  | <b>892</b>                      |  |                                   |   |   |                                 | <b>3</b>                    | <b>107</b>   |                               |  |                          | <b>1 792</b>   |                |
| Electricity - Électricité - Electrica   | 790                          |                             |  | 892                             |  |                                   |   |   |                                 | 3                           | 10   |                               |  |                          | 1 694          |                |
| Heat - Chaleur - Calor  |                              |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  |                          | 97             |                |
| Direct use - Utilisation directe - Uso directo  |                              |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  |                          |                |                |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                             |  |                                 |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                                 |                             |  |                               |  |                          |                |                |
| Electricity - Électricité - Electrica (in/en GWh)   | 82                           |                             |  | 93                              |  |                                   |   |   |                                 | 0                           | 1  |                               |  |                          | 177            |                |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  |                          |                |                |
| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Eoliennes<br>Eólica | Solar - Solaire - Solar                              |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios   |                                 |                             | Pellets/briq.<br>Granules/briq.<br>Pellets/briq.     | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Electricidad | Heat<br>Chaleur<br>Calor | Total          |                |
|   |                              |                             | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica       | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás |  |                               |  |                          |                |                |
|   |                              |                             | Primary energy - Énergie primaire - Energía primaria |                                 |  |                                   |   |   |                                 |                             | Primary energy - Énergie primaire - Energía primaria |                               |  |                          |                |                |
| Production - Production - Generación  | 459                          |                             |  | 334                             |  |                                   |   |   |                                 | 166 697                     | 3  | 114                           |  |                          | 167 607        |                |
| Imports - Importations - Importaciones  |                              |                             |  |                                 |  |                                   |   |   |                                 |                             |  | 0                             |  | 1 213                    | 1 213          |                |
| Exports - Exportations - Exportaciones  |                              |                             |  |                                 |  |                                   |   |   |                                 |                             |  | - 370                         |  |                          | - 370          |                |
| Stock - Stocks - Inventario (+/-)   |                              |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  |                          |                |                |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>459</b>                   |                             |  | <b>334</b>                      |  |                                   |   |   |                                 | <b>166 697</b>              | <b>3</b>   | <b>114</b>                    |  |                          | <b>168 451</b> |                |
| Differences - Ecarts - Diferencias  |                              |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  |                          |                |                |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                             |  |                                 |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                                 |                             |  |                               |  |                          |                |                |
| Electricity - Électricité - Electrica   | - 459                        |                             |  | - 334                           |  |                                   |   |   |                                 | - 53 087                    | - 3  | - 11                          |  | 798                      | - 10           |                |
| CHP - Cogénération - Cogeneración   |                              |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  |                          |                |                |
| Heat - Chaleur - Calor  |                              |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  |                          |                |                |
| Charcoal - Charbon - Carbón   |                              |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  |                          |                |                |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  |                          |                |                |
| Other - Autres - Otras  |                              |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  |                          |                |                |
| Own use - Consomm. propre - Uso propio  |                              |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  |                          |                |                |
| Distribution - Distribution - Distribución  |                              |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  |                          |                |                |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                             |  |                                 |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                                 |                             |  |                               |  |                          |                |                |
| Total - Total - Total   |                              |                             |  |                                 |  |                                   |   | 113 610   |                                 | 103                         |  |                               | 23 662                                     | 1 783                    | 139 157        |                |
| Industry - Industrie - Industria  |                              |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               | 930  |                          |                |                |
| Transport - Transport - Transporte  |                              |                             |  |                                 |  |                                   |   | 22 768  |                                 | 103                         |  |                               | 2 080                                      | 231                      | 25 080         |                |
| Commerce - Commerce - Comercial   |                              |                             |  |                                 |  |                                   |   | 90 841  |                                 |                             |  |                               | 21 582                                     | 254                      | 112 780        |                |
| Residential - Résidentiel - Residencial   |                              |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               | 367  |                          | 367            |                |
| Other - Autres - Otros  |                              |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  |                          |                |                |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                             |  |                                 |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                                 |                             |  |                               |  |                          |                |                |
| <b>Total - Total - Total</b>  | <b>1 026</b>                 |                             |  | <b>746</b>                      |  |                                   |   |   |                                 | <b>113 610</b>              | <b>2</b>   | <b>111</b>                    |  | <b>23 662</b>            |                | <b>139 157</b> |
| Electricity - Électricité - Electrica   | 1 026                        |                             |  | 746                             |  |                                   |   |   |                                 | 113 610                     | 2  | 8                             |  | 23 662                   |                | 1 783          |
| Heat - Chaleur - Calor  |                              |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  |                          |                |                |
| Direct use - Utilisation directe - Uso directo  |                              |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  |                          | 137 374        |                |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                             |  |                                 |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                                 |                             |  |                               |  |                          |                |                |
| Electricity - Électricité - Electrica (in/en GWh)   | 127                          |                             |  | 93                              |  |                                   |   |   |                                 | 0                           | 1  |                               |  |                          | 222            |                |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  |                          |                |                |

## Burundi

## Burundi

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Eolienne<br>Eólica | Solar - Solaire - Solar                               |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios   |                             |          | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Carbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total         |
|---|------------------------------|----------------------------|---|---------------------------------|-------------------------------|--|-----------------------------------|---|---|-----------------------------|----------|--|------------------------------|---|--------------------------|---------------|
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás |          |  |                              |   |                          |               |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaaria |                                 |                               |  |                                   |   | Primary energy - Énergie primaire - Energía primaaria   |                             |          |  |                              |   |                          |               |
| Production - Production - Generación  | 923                          |                            |   | 8                               |                               |  |                                   |   | 68 463  |                             | 4        |  |                              | 171                                     |                          | 69 397        |
| Imports - Importations - Importaciones  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |          | - 0  |                              |   |                          | 171           |
| Exports - Exportations - Exportaciones  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |          |  |                              |   |                          | - 0           |
| Stock - Stocks - Inventario (+/-)   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |          |  |                              |   |                          |               |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>923</b>                   |                            |   | <b>8</b>                        |                               |  |                                   |   | <b>68 463</b>   |                             | <b>4</b> |  |                              | <b>171</b>                              |                          | <b>69 568</b> |
| Differences - Ecarts - Diferencias  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |          |  |                              |   |                          | <b>9</b>      |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |   |                                 |                               |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                             |          |  |                              |   |                          |               |
| Electricity - Électricité - Electrica   | - 923                        |                            |   | - 8                             |                               |  |                                   |   | - 276   |                             |          |  |                              | 951                                     |                          | - 256         |
| CHP - Cogénération - Cogeneración   |                              |                            |   |                                 |                               |  |                                   |   | - 20  |                             |          |  |                              |   |                          | - 20          |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |                               |  |                                   |   | - 25 825  |                             |          |  |                              |   |                          | - 14 135      |
| Charcoal - Charbon - Carbón   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |          |  |                              |   |                          |               |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |          |  |                              |   |                          |               |
| Other - Autres - Otras  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |          |  |                              |   |                          | - 6           |
| Own use - Consomm. propre - Uso propio  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |          |  |                              |   |                          | - 153         |
| Distribution - Distribution - Distribución  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |          |  |                              |   |                          |               |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |   |                                 |                               |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                             |          |  |                              |   |                          |               |
| <b>Total - Total - Total</b>  |                              |                            |   |                                 |                               |  |                                   |   | <b>42 342</b>   |                             | <b>4</b> |  |                              | <b>11 690</b>                           |                          | <b>54 534</b> |
| Industry - Industrie - Industria  |                              |                            |   |                                 |                               |  |                                   |   | 414   |                             | 0        |  |                              | 498                                     |                          | 516           |
| Transport - Transport - Transporte  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |          |  |                              | 102                                     |                          |               |
| Commerce - Commerce - Comercial   |                              |                            |   |                                 |                               |  |                                   |   |   |                             | 0        |  |                              | 363                                     |                          |               |
| Residential - Résidentiel - Residencial   |                              |                            |   |                                 |                               |  |                                   |   |   |                             | 4        |  |                              | 33                                      |                          | 53 655        |
| Other - Autres - Otros  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |          |  |                              |   |                          |               |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |   |                                 |                               |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                             |          |  |                              |   |                          |               |
| <b>Total - Total - Total</b>  | <b>483</b>                   |                            |   | <b>4</b>                        |                               |  |                                   |   | <b>42 352</b>   |                             | <b>4</b> |  |                              | <b>11 690</b>                           |                          | <b>54 534</b> |
| Electricity - Électricité - Electrica   | 483                          |                            |   | 4                               |                               |  |                                   |   | 10  |                             |          |  |                              |   |                          | 498           |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |          |  |                              |   |                          |               |
| Direct use - Utilisation directe - Uso directo  |                              |                            |   |                                 |                               |  |                                   |   | 42 342  |                             | 4        |  |                              | 11 690                                  |                          | 54 036        |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |   |                                 |                               |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                             |          |  |                              |   |                          |               |
| Electricity - Électricité - Electrica (in/en GWh)   | 256                          |                            |   | 2                               |                               |  |                                   |   | 6   |                             |          |  |                              |   |                          | 264           |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |          |  |                              |   |                          |               |
| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Eolienne<br>Eólica | Solar - Solaire - Solar                               |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios   |                             |          | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Carbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total         |
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás |          |  |                              |   |                          |               |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaaria |                                 |                               |  |                                   |   | Primary energy - Énergie primaire - Energía primaaria   |                             |          |  |                              |   |                          |               |
| Production - Production - Generación  | 923                          |                            |   | 8                               |                               |  |                                   |   | 68 565  |                             | 4        |  |                              | 204                                     |                          | 69 501        |
| Imports - Importations - Importaciones  |                              |                            |   |                                 |                               |  |                                   |   |   |                             | 0        |  |                              | 171                                     |                          | 204           |
| Exports - Exportations - Exportaciones  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |          |  |                              |   |                          |               |
| Stock - Stocks - Inventario (+/-)   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |          |  |                              |   |                          |               |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>923</b>                   |                            |   | <b>8</b>                        |                               |  |                                   |   | <b>68 565</b>   |                             | <b>4</b> |  |                              | <b>204</b>                              |                          | <b>69 705</b> |
| Differences - Ecarts - Diferencias  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |          |  |                              |   |                          | <b>10</b>     |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |   |                                 |                               |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                             |          |  |                              |   |                          |               |
| Electricity - Électricité - Electrica   | - 923                        |                            |   | - 8                             |                               |  |                                   |   | - 276   |                             |          |  |                              | 951                                     |                          | - 256         |
| CHP - Cogénération - Cogeneración   |                              |                            |   |                                 |                               |  |                                   |   | - 20  |                             |          |  |                              |   |                          | - 20          |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |                               |  |                                   |   | - 25 406  |                             |          |  |                              |   |                          | - 13 905      |
| Charcoal - Charbon - Carbón   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |          |  |                              |   |                          |               |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |          |  |                              |   |                          |               |
| Other - Autres - Otras  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |          |  |                              |   |                          | - 7           |
| Own use - Consomm. propre - Uso propio  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |          |  |                              |   |                          | - 183         |
| Distribution - Distribution - Distribución  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |          |  |                              |   |                          |               |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |   |                                 |                               |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                             |          |  |                              |   |                          |               |
| <b>Total - Total - Total</b>  |                              |                            |   |                                 |                               |  |                                   |   | <b>42 864</b>   |                             | <b>4</b> |  |                              | <b>11 501</b>                           |                          | <b>54 964</b> |
| Industry - Industrie - Industria  |                              |                            |   |                                 |                               |  |                                   |   | 517   |                             | 0        |  |                              | 595                                     |                          | 638           |
| Transport - Transport - Transporte  |                              |                            |   |                                 |                               |  |                                   |   |   |                             | 0        |  |                              | 122                                     |                          |               |
| Commerce - Commerce - Comercial   |                              |                            |   |                                 |                               |  |                                   |   |   |                             | 4        |  |                              | 434                                     |                          | 434           |
| Residential - Résidentiel - Residencial   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |          |  |                              | 39                                      |                          | 53 891        |
| Other - Autres - Otros  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |          |  |                              |   |                          |               |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |   |                                 |                               |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                             |          |  |                              |   |                          |               |
| <b>Total - Total - Total</b>  | <b>577</b>                   |                            |   | <b>5</b>                        |                               |  |                                   |   | <b>42 877</b>   |                             | <b>4</b> |  |                              | <b>11 501</b>                           |                          | <b>54 964</b> |
| Electricity - Électricité - Electrica   | 577                          |                            |   | 5                               |                               |  |                                   |   | 12  |                             |          |  |                              |   |                          | 595           |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |          |  |                              |   |                          |               |
| Direct use - Utilisation directe - Uso directo  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |          |  |                              |   |                          | 54 369        |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |   |                                 |                               |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                             |          |  |                              |   |                          |               |
| Electricity - Électricité - Electrica (in/en GWh)   | 256                          |                            |   | 2                               |                               |  |                                   |   | 6   |                             |          |  |                              |   |                          | 264           |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |          |  |                              |   |                          |               |

## Cabo Verde

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Eoliennes<br>Éolica | Solar - Solaire - Solar                               |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primaires -<br>Biocombustibles primarios   |                                 |                             | Pellets/briq.<br>Granules/briq.<br>Pellets/briq.      | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total        |
|---|------------------------------|-----------------------------|---|---------------------------------|--|-----------------------------------|---|---|---------------------------------|-----------------------------|---|-------------------------------|---|--------------------------|--------------|
|   |                              |                             | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Liquidos | Biogas - Biogaz<br>- Biogás |   |                               |   |                          |              |
|   |                              |                             | Primary energy - Énergie primaire - Energía primaaria |                                 |  |                                   |   |   |                                 |                             | Primary energy - Énergie primaire - Energía primaaria |                               |   |                          |              |
| Production - Production - Generación  |                              |                             | 266   | 260                             |  |                                   |   |   | 2 613                           |                             |   | 0                             |   |                          | 3 138        |
| Imports - Importations - Importaciones  |                              |                             | 266   | 260                             |  |                                   |   |   | 2 613                           |                             |   | 0                             |   |                          | 0            |
| Exports - Exportations - Exportaciones  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   | 0                             |   |                          | 3 139        |
| Stock - Stocks - Inventario (+/-)   |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   | - 0                           |   |                          | - 0          |
| <b>Supply - Approvisionnement - Oferta</b>  |                              |                             | <b>266</b>  | <b>260</b>                      |  |                                   |   |   | <b>2 613</b>                    |                             |   | <b>0</b>                      |   |                          | <b>3 139</b> |
| Differences - Ecarts - Diferencias  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   | - 0                           |   |                          | - 0          |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                             |   |                                 |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                                 |                             |   |                               |   |                          |              |
| Electricity - Électricité - Electrica   |                              |                             | - 266   | - 260                           |  |                                   |   |   | - 63                            |                             |   | 28                            |   | 526                      |              |
| CHP - Cogénération - Cogeneración   |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          | - 34         |
| Heat - Chaleur - Calor  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   | - 10                          |   |                          | - 10         |
| Charcoal - Charbon - Carbón   |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   | - 112                         |   |                          | - 112        |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |              |
| Other - Autres - Otras  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |              |
| Own use - Consomm. propre - Uso propio  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |              |
| Distribution - Distribution - Distribución  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |              |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                             |   |                                 |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                                 |                             |   |                               |   |                          |              |
| <b>Total - Total - Total</b>  |                              |                             |   |                                 |  |                                   |   | <b>2 550</b>  |                                 |                             | <b>29</b>   | <b>403</b>                    |   | <b>2 982</b>             |              |
| Industry - Industrie - Industria  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   | 42                            |   |                          |              |
| Transport - Transport - Transporte  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |              |
| Commerce - Commerce - Comercial   |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |              |
| Residential - Résidentiel - Residencial   |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |              |
| Other - Autres - Otros  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |              |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                             |   |                                 |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                                 |                             |   |                               |   |                          |              |
| <b>Total - Total - Total</b>  |                              |                             | <b>204</b>  | <b>199</b>                      |  |                                   |   | <b>2 550</b>  |                                 |                             | <b>29</b>   | <b>403</b>                    |   | <b>2 982</b>             |              |
| Electricity - Électricité - Electrica   |                              |                             | 204   | 199                             |  |                                   |   |   |                                 |                             |   |                               |   |                          |              |
| Heat - Chaleur - Calor  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |              |
| Direct use - Utilisation directe - Uso directo  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |              |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                             |   |                                 |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                                 |                             |   |                               |   |                          |              |
| Electricity - Électricité - Electrica (in/en GWh)   |                              |                             | 74  | 72                              |  |                                   |   |   |                                 |                             |   |                               |   |                          |              |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          | 146          |
| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Eoliennes<br>Éolica | Solar - Solaire - Solar                               |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primaires -<br>Biocombustibles primarios   |                                 |                             | Pellets/briq.<br>Granules/briq.<br>Pellets/briq.      | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total        |
|   |                              |                             | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Liquidos | Biogas - Biogaz<br>- Biogás |   |                               |   |                          |              |
|   |                              |                             | Primary energy - Énergie primaire - Energía primaaria |                                 |  |                                   |   |   |                                 |                             | Primary energy - Énergie primaire - Energía primaaria |                               |   |                          |              |
| Production - Production - Generación  |                              |                             | 266   | 25                              |  |                                   |   |   | 2 581                           |                             |   | 0                             |   |                          | 2 871        |
| Imports - Importations - Importaciones  |                              |                             | 266   | 25                              |  |                                   |   |   | 2 581                           |                             |   | 0                             |   |                          | 0            |
| Exports - Exportations - Exportaciones  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |              |
| <b>Supply - Approvisionnement - Oferta</b>  |                              |                             | <b>266</b>  | <b>25</b>                       |  |                                   |   |   | <b>2 581</b>                    |                             |   | <b>0</b>                      |   |                          | <b>2 871</b> |
| Differences - Ecarts - Diferencias  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   | - 0                           |   |                          | - 0          |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                             |   |                                 |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                                 |                             |   |                               |   |                          |              |
| Electricity - Électricité - Electrica   |                              |                             | - 266   | - 25                            |  |                                   |   |   | - 63                            |                             |   | 28                            |   | 290                      |              |
| CHP - Cogénération - Cogeneración   |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          | - 34         |
| Heat - Chaleur - Calor  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   | - 7                           |   |                          | - 7          |
| Charcoal - Charbon - Carbón   |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   | - 74                          |   |                          | - 74         |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |              |
| Other - Autres - Otras  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |              |
| Own use - Consomm. propre - Uso propio  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |              |
| Distribution - Distribution - Distribución  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |              |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                             |   |                                 |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                                 |                             |   |                               |   |                          |              |
| <b>Total - Total - Total</b>  |                              |                             |   |                                 |  |                                   |   | <b>2 518</b>  |                                 |                             | <b>28</b>   | <b>210</b>                    |   | <b>2 756</b>             |              |
| Industry - Industrie - Industria  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   | 22                            |   |                          |              |
| Transport - Transport - Transporte  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |              |
| Commerce - Commerce - Comercial   |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |              |
| Residential - Résidentiel - Residencial   |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |              |
| Other - Autres - Otros  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |              |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                             |   |                                 |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                                 |                             |   |                               |   |                          |              |
| <b>Total - Total - Total</b>  |                              |                             | <b>192</b>  | <b>18</b>                       |  |                                   |   | <b>2 518</b>  |                                 |                             | <b>28</b>   | <b>210</b>                    |   | <b>2 756</b>             |              |
| Electricity - Électricité - Electrica   |                              |                             | 192   | 18                              |  |                                   |   |   |                                 |                             |   |                               |   |                          |              |
| Heat - Chaleur - Calor  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |              |
| Direct use - Utilisation directe - Uso directo  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |              |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                             |   |                                 |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                                 |                             |   |                               |   |                          |              |
| Electricity - Électricité - Electrica (in/en GWh)   |                              |                             | 74  | 7                               |  |                                   |   |   |                                 |                             |   |                               |   |                          |              |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          | 81           |

## Cambodia

| 2022 (In/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                               |                                 | Geothermal<br>Géothermique<br>Geotérmica              | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios   |                                 |                             | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Electricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total |                |         |
|---|------------------------------|----------------------------|---|---------------------------------|---|-----------------------------------|---|---|---------------------------------|-----------------------------|--|-------------------------------|---|--------------------------|-------|----------------|---------|
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica |   |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás |  |                               |   |                          |       |                |         |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaaria |                                 | Primary energy - Énergie primaire - Energía primaaria |                                   |   | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios   |                                 |                             |  |                               |   |                          |       |                |         |
| Production - Production - Generación  | 21 234                       | 1                          | 2 714   | 112                             |   |                                   |   | 84 771  |                                 | 418                         |  |                               |   | 11 363                   |       | 109 249        |         |
| Imports - Importations - Importaciones  |                              |                            |   |                                 |   |                                   |   |   |                                 |                             |  |                               |   |                          |       | 11 363         |         |
| Exports - Exportations - Exportaciones  |                              |                            |   |                                 |   |                                   |   |   |                                 |                             |  |                               |   |                          |       |                |         |
| Stock - Stocks - Inventario (+/-)   |                              |                            |   |                                 |   |                                   |   |   |                                 |                             |  |                               |   |                          |       |                |         |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>21 234</b>                | <b>1</b>                   | <b>2 714</b>  | <b>112</b>                      |   |                                   |   | <b>84 771</b>   |                                 | <b>418</b>                  |  |                               |   | <b>11 363</b>            |       | <b>120 612</b> |         |
| Differences - Ecarts - Diferencias  |                              |                            |   |                                 |   |                                   |   |   |                                 |                             |  |                               |   |                          |       |                |         |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |   |                                 |   |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                                 |                             |  |                               |   |                          |       |                |         |
| Electricity - Électricité - Electrica   | - 21 234                     | - 1                        | - 2 714   |                                 |   |                                   |   | - 165   |                                 | - 64                        |  |                               |   | 24 025                   |       | - 154          |         |
| CHP - Cogénération - Cogeneración   |                              |                            |   |                                 |   |                                   |   | - 287   |                                 |                             |  |                               |   | 113                      |       | - 174          |         |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |   |                                   |   |   |                                 |                             |  |                               |   |                          |       |                |         |
| Charcoal - Charbon - Carbón   |                              |                            |   |                                 |   |                                   |   |   |                                 |                             |  |                               |   |                          |       |                |         |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |   |                                 |   |                                   |   |   |                                 |                             |  |                               |   |                          |       |                |         |
| Other - Autres - Otras  |                              |                            |   |                                 |   |                                   |   |   |                                 |                             |  |                               |   |                          |       |                |         |
| Own use - Consomm. propre - Uso propio  |                              |                            |   |                                 |   |                                   |   |   |                                 |                             |  |                               |   |                          |       |                |         |
| Distribution - Distribution - Distribución  |                              |                            |   |                                 |   |                                   |   |   |                                 |                             |  |                               |   |                          |       |                |         |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |   |                                 |   |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                                 |                             |  |                               |   |                          |       |                |         |
| Total - Total - Total   |                              |                            |   | 112                             |   |                                   |   | 55 651  |                                 | 354                         |  |                               | 12 659                                  | 31 869                   |       | 100 644        |         |
| Industry - Industrie - Industria  |                              |                            |   |                                 |   |                                   |   | 22 326  |                                 |                             |  |                               |   | 6 990                    |       | 29 316         |         |
| Transport - Transport - Transporte  |                              |                            |   |                                 |   |                                   |   |   |                                 |                             |  |                               |   |                          |       |                |         |
| Commerce - Commerce - Comercial   |                              |                            |   | 67                              |   |                                   |   |   |                                 |                             |  |                               |   |                          |       |                |         |
| Residential - Résidentiel - Residencial   |                              |                            |   | 45                              |   |                                   |   | 33 325  |                                 | 354                         |  |                               | 12 659                                  | 15 469                   |       | 15 537         |         |
| Other - Autres - Otros  |                              |                            |   |                                 |   |                                   |   |   |                                 |                             |  |                               |   | 9 342                    |       | 55 724         |         |
|   |                              |                            |   |                                 |   |                                   |   |   |                                 |                             |  |                               |   | 67                       |       |                |         |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |   |                                 |   |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                                 |                             |  |                               |   |                          |       |                |         |
| Total - Total - Total   | 28 035                       | 1                          | 3 583   | 112                             |   |                                   |   | 55 872  |                                 | 381                         |  |                               | 12 659                                  |                          |       | 100 644        |         |
| Electricity - Électricité - Electrica   | 28 035                       | 1                          | 3 583   |                                 |   |                                   |   | 221   |                                 | 28                          |  |                               |   |                          |       | 31 869         |         |
| Heat - Chaleur - Calor  |                              |                            |   | 112                             |   |                                   |   |   |                                 |                             |  |                               |   |                          |       |                |         |
| Direct use - Utilisation directe - Uso directo  |                              |                            |   |                                 |   |                                   |   | 55 651  |                                 | 354                         |  |                               | 12 659                                  |                          |       | 68 775         |         |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |   |                                 |   |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                                 |                             |  |                               |   |                          |       |                |         |
| Electricity - Électricité - Electrica (in/en GWh)   | 5 898                        | 0                          | 754   |                                 |   |                                   |   | 47  |                                 | 6                           |  |                               |   |                          |       | 6 705          |         |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |   |                                 |   |                                   |   |   |                                 |                             |  |                               |   |                          |       |                |         |
| 2021 (In/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                               |                                 | Geothermal<br>Géothermique<br>Geotérmica              | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios   |                                 |                             | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Electricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total |                |         |
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica |   |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás |  |                               |   |                          |       |                |         |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaaria |                                 |   |                                   |   | Primary energy - Énergie primaire - Energía primaaria   |                                 |                             |  |                               |   |                          |       |                |         |
| Production - Production - Generación  | 18 158                       | 1                          | 2 381   | 109                             |   |                                   |   | 82 853  |                                 | 419                         |  |                               |   |                          | 7 203 |                | 103 922 |
| Imports - Importations - Importaciones  |                              |                            |   |                                 |   |                                   |   |   |                                 |                             |  |                               |   |                          |       |                | 7 203   |
| Exports - Exportations - Exportaciones  |                              |                            |   |                                 |   |                                   |   |   |                                 |                             |  |                               |   |                          |       |                |         |
| Stock - Stocks - Inventario (+/-)   |                              |                            |   |                                 |   |                                   |   |   |                                 |                             |  |                               |   |                          |       |                |         |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>18 158</b>                | <b>1</b>                   | <b>2 381</b>  | <b>109</b>                      |   |                                   |   | <b>82 853</b>   |                                 | <b>419</b>                  |  |                               |   | <b>7 203</b>             |       | <b>111 125</b> |         |
| Differences - Ecarts - Diferencias  |                              |                            |   |                                 |   |                                   |   |   |                                 |                             |  |                               |   |                          |       |                | - 0     |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |   |                                 |   |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                                 |                             |  |                               |   |                          |       |                |         |
| Electricity - Électricité - Electrica   | - 18 158                     | - 1                        | - 2 381   |                                 |   |                                   |   | - 172   |                                 | - 64                        |  |                               |   | 20 618                   |       | - 158          |         |
| CHP - Cogénération - Cogeneración   |                              |                            |   |                                 |   |                                   |   | - 548   |                                 |                             |  |                               |   | 244                      |       | - 303          |         |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |   |                                   |   |   |                                 |                             |  |                               |   |                          |       |                |         |
| Charcoal - Charbon - Carbón   |                              |                            |   |                                 |   |                                   |   |   |                                 |                             |  |                               |   |                          |       |                |         |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |   |                                 |   |                                   |   |   |                                 |                             |  |                               |   |                          |       |                |         |
| Other - Autres - Otras  |                              |                            |   |                                 |   |                                   |   |   |                                 |                             |  |                               |   |                          |       |                |         |
| Own use - Consomm. propre - Uso propio  |                              |                            |   |                                 |   |                                   |   |   |                                 |                             |  |                               |   |                          |       |                |         |
| Distribution - Distribution - Distribución  |                              |                            |   |                                 |   |                                   |   |   |                                 |                             |  |                               |   |                          |       |                |         |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |   |                                 |   |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                                 |                             |  |                               |   |                          |       |                |         |
| Total - Total - Total   |                              |                            |   | 109                             |   |                                   |   | 54 164  |                                 | 355                         |  |                               | 12 351                                  | 25 076                   |       | 92 055         |         |
| Industry - Industrie - Industria  |                              |                            |   |                                 |   |                                   |   | 21 614  |                                 |                             |  |                               |   | 5 507                    |       | 27 121         |         |
| Transport - Transport - Transporte  |                              |                            |   |                                 |   |                                   |   |   |                                 |                             |  |                               |   |                          |       |                |         |
| Commerce - Commerce - Comercial   |                              |                            |   | 65                              |   |                                   |   | 32 550  |                                 | 355                         |  |                               | 12 351                                  | 12 168                   |       | 12 234         |         |
| Residential - Résidentiel - Residencial   |                              |                            |   | 44                              |   |                                   |   |   |                                 |                             |  |                               |   | 7 349                    |       | 52 648         |         |
| Other - Autres - Otros  |                              |                            |   |                                 |   |                                   |   |   |                                 |                             |  |                               |   | 53                       |       | 53             |         |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |   |                                 |   |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                                 |                             |  |                               |   |                          |       |                |         |
| Total - Total - Total   | 21 825                       | 1                          | 2 862   | 109                             |   |                                   |   | 54 527  |                                 | 380                         |  |                               | 12 351                                  |                          |       | 92 055         |         |
| Electricity - Électricité - Electrica   | 21 825                       | 1                          | 2 862   |                                 |   |                                   |   | 363   |                                 | 25                          |  |                               |   |                          |       |                | 25 076  |
| Heat - Chaleur - Calor  |                              |                            |   | 109                             |   |                                   |   |   |                                 |                             |  |                               |   |                          |       |                |         |
| Direct use - Utilisation directe - Uso directo  |                              |                            |   |                                 |   |                                   |   | 54 164  |                                 | 355                         |  |                               | 12 351                                  |                          |       | 66 979         |         |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |   |                                 |   |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                                 |                             |  |                               |   |                          |       |                |         |
| Electricity - Électricité - Electrica (in/en GWh)   | 5 044                        | 0                          | 661   |                                 |   |                                   |   | 84  |                                 | 6                           |  |                               |   |                          |       |                | 5 795   |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |   |                                 |   |                                   |   |   |                                 |                             |  |                               |   |                          |       |                |         |

## Cameroon

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Eoliennes<br>Eólica | Solar - Solaire - Solar                              |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios   |                                 |                             | Pellets/briq.<br>Granules/briq.<br>Pellets/briq.     | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total    |
|---|------------------------------|-----------------------------|--|---------------------------------|--|-----------------------------------|---|---|---------------------------------|-----------------------------|--|-------------------------------|---|--------------------------|----------|
|   |                              |                             | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica       | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás |  |                               |   |                          |          |
|   |                              |                             | Primary energy - Énergie primaire - Energía primaria |                                 |  |                                   |   |   |                                 |                             | Primary energy - Énergie primaire - Energía primaria |                               |   |                          |          |
| Production - Production - Generación  | 18 838                       |                             |  | 130                             |  |                                   |   | 123 405   |                                 | 2                           |  |                               |   |                          | 142 375  |
| Imports - Importations - Importaciones  |                              |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |          |
| Exports - Exportations - Exportaciones  |                              |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |          |
| Stock - Stocks - Inventario (+/-)   | 18 838                       |                             |  | 130                             |  |                                   |   | 123 405   |                                 | 2                           |  |                               |   |                          | 142 375  |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>18 838</b>                |                             |  | <b>130</b>                      |  |                                   |   |   |                                 |                             |  |                               |   |                          |          |
| Differences - Ecarts - Diferencias  |                              |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |          |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                             |  |                                 |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                                 |                             |  |                               |   |                          |          |
| Electricity - Électricité - Electrica   | - 18 838                     |                             |  | - 130                           |  |                                   |   | - 36 815  |                                 |                             |  |                               |   | 18 968                   |          |
| CHP - Cogénération - Cogeneración   |                              |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |          |
| Heat - Chaleur - Calor  |                              |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          | - 36 815 |
| Charcoal - Charbon - Carbón   |                              |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |          |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |          |
| Other - Autres - Otras  |                              |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |          |
| Own use - Consomm. propre - Uso propio  |                              |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |          |
| Distribution - Distribución - Distribución  |                              |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          | - 5 304  |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                             |  |                                 |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                                 |                             |  |                               |   |                          |          |
| Total - Total - Total   |                              |                             |  |                                 |  |                                   |   | 86 590  |                                 | 2                           |  |                               |   | 13 664                   |          |
| Industry - Industrie - Industria  |                              |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   | 7 707                    |          |
| Transport - Transport - Transporte  |                              |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |          |
| Commerce - Commerce - Comercial   |                              |                             |  |                                 |  |                                   |   | 17 151  |                                 |                             |  |                               |   | 1 052                    |          |
| Residential - Résidentiel - Residencial   |                              |                             |  |                                 |  |                                   |   | 69 439  |                                 | 2                           |  |                               |   | 2 876                    |          |
| Other - Autres - Otros  |                              |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   | 2 028                    |          |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                             |  |                                 |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                                 |                             |  |                               |   |                          |          |
| Total - Total - Total   | 13 570                       |                             |  | 94                              |  |                                   |   | 86 590  |                                 | 2                           |  |                               |   | 100 256                  |          |
| Electricity - Électricité - Electrica   | 13 570                       |                             |  | 94                              |  |                                   |   |   |                                 |                             |  |                               |   | 13 664                   |          |
| Heat - Chaleur - Calor  |                              |                             |  |                                 |  |                                   |   | 86 590  |                                 | 2                           |  |                               |   |                          | 86 592   |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                             |  |                                 |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                                 |                             |  |                               |   |                          |          |
| Electricity - Électricité - Electrica (in/en GWh)   | 5 233                        |                             |  | 36                              |  |                                   |   |   |                                 |                             |  |                               |   |                          | 5 269    |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |          |
| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Eoliennes<br>Eólica | Solar - Solaire - Solar                              |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios   |                                 |                             | Pellets/briq.<br>Granules/briq.<br>Pellets/briq.     | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total    |
|   |                              |                             | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica       | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás |  |                               |   |                          |          |
|   |                              |                             | Primary energy - Énergie primaire - Energía primaria |                                 |  |                                   |   |   |                                 |                             | Primary energy - Énergie primaire - Energía primaria |                               |   |                          |          |
| Production - Production - Generación  | 18 838                       |                             |  | 130                             |  |                                   |   | 122 488   |                                 | 2                           |  |                               |   |                          | 141 458  |
| Imports - Importations - Importaciones  |                              |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |          |
| Exports - Exportations - Exportaciones  |                              |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |          |
| Stock - Stocks - Inventario (+/-)   | 18 838                       |                             |  | 130                             |  |                                   |   | 122 488   |                                 | 2                           |  |                               |   |                          | 141 458  |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>18 838</b>                |                             |  | <b>130</b>                      |  |                                   |   |   |                                 |                             |  |                               |   |                          |          |
| Differences - Ecarts - Diferencias  |                              |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |          |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                             |  |                                 |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                                 |                             |  |                               |   |                          |          |
| Electricity - Électricité - Electrica   | - 18 838                     |                             |  | - 130                           |  |                                   |   | - 36 170  |                                 |                             |  |                               |   | 18 968                   |          |
| CHP - Cogénération - Cogeneración   |                              |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |          |
| Heat - Chaleur - Calor  |                              |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          | - 19 797 |
| Charcoal - Charbon - Carbón   |                              |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |          |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |          |
| Other - Autres - Otras  |                              |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |          |
| Own use - Consomm. propre - Uso propio  |                              |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |          |
| Distribution - Distribución - Distribución  |                              |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          | - 5 304  |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                             |  |                                 |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                                 |                             |  |                               |   |                          |          |
| Total - Total - Total   |                              |                             |  |                                 |  |                                   |   | 86 318  |                                 | 2                           |  |                               |   | 16 373                   |          |
| Industry - Industrie - Industria  |                              |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   | 13 664                   |          |
| Transport - Transport - Transporte  |                              |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   | 7 707                    |          |
| Commerce - Commerce - Comercial   |                              |                             |  |                                 |  |                                   |   | 17 097  |                                 |                             |  |                               |   | 1 052                    |          |
| Residential - Résidentiel - Residencial   |                              |                             |  |                                 |  |                                   |   | 69 221  |                                 | 2                           |  |                               |   | 16 373                   |          |
| Other - Autres - Otros  |                              |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   | 2 876                    |          |
|   |                              |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   | 2 029                    |          |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                             |  |                                 |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                                 |                             |  |                               |   |                          |          |
| Total - Total - Total   | 13 570                       |                             |  | 93                              |  |                                   |   | 86 318  |                                 | 2                           |  |                               |   | 16 373                   |          |
| Electricity - Électricité - Electrica   | 13 570                       |                             |  | 93                              |  |                                   |   |   |                                 |                             |  |                               |   |                          | 116 357  |
| Heat - Chaleur - Calor  |                              |                             |  |                                 |  |                                   |   | 86 318  |                                 | 2                           |  |                               |   |                          | 13 664   |
| Direct use - Utilisation directe - Uso directo  |                              |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          | 102 693  |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                             |  |                                 |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                                 |                             |  |                               |   |                          |          |
| Electricity - Électricité - Electrica (in/en GWh)   | 5 233                        |                             |  | 36                              |  |                                   |   |   |                                 |                             |  |                               |   |                          | 5 269    |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |          |

## Canada

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Éolica | Solar - Solaire - Solar                        |                                 | Geothermal<br>Géothermique | Other RE<br>Autres ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                                 |                                  | Pellets/briq.<br>Granules/briq.,<br>Pellets/briq. | Charcoal<br>Carbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total   |                  |
|---|------------------------------|----------------------------|--|---------------------------------|----------------------------|-----------------------|---|---|---------------------------------|----------------------------------|---|------------------------------|---|--------------------------|---|------------------|
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica |                            |                       |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás      |   |                              |   |                          |   |                  |
| <b>Primary energy - Énergie primaire - Energía primaria</b>   |                              |                            |  |                                 |                            |                       |   |   |                                 |                                  |   |                              |   |                          |   |                  |
| Production - Production - Generación  | 1431 418                     | 132 671                    | 20 653   | 1 397                           |                            |                       | 5 677                                       | 455 873<br>4 921  | 47 450<br>63 377                | 14 273                           | 520   | 2 726                        | 35 053<br>- 162 416                     |                          | 2 109 412<br>106 597<br>- 79 587<br>- 1 305           |                  |
| Imports - Importations - Importaciones  |                              |                            |  |                                 |                            |                       |   | 12 595<br>- 1 305   |                                 |                                  |   |                              |   |                          |   |                  |
| Exports - Exportations - Exportaciones  |                              |                            |  |                                 |                            |                       |   | - 18 618<br>- 156   | 122 117<br>- 156                | 14 273                           | 70 832  | 2 648                        | - 127 363<br>32 866                     |                          | 2 135 117<br>- 126 532                                |                  |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>1 431 418</b>             | <b>132 671</b>             | <b>20 653</b>                                  | <b>1 397</b>                    |                            |                       | <b>5 677</b>                                | <b>460 794<br/>- 140 624</b>  | <b>122 117<br/>- 18 618</b>     | <b>14 273<br/>- 156</b>          | <b>70 832</b>                                     | <b>2 648</b>                 | <b>- 127 363<br/>32 866</b>             |                          | <b>2 109 412<br/>106 597<br/>- 79 587<br/>- 1 305</b> |                  |
| <i>Differences - écarts - Diferencias</i>   |                              |                            |  |                                 |                            |                       |   |   |                                 |                                  |   |                              |   |                          |   |                  |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |                                 |                            |                       |   |   |                                 |                                  |   |                              |   |                          |   |                  |
| Electricity - Électricité - Electrica   | -1 431 418                   | -132 671                   | - 20 653                                       |                                 |                            |                       |   | - 1 498<br>- 1 029<br>- 3 150   | - 77 837                        |                                  | - 7 018<br>- 1 202<br>- 2 970                     |                              | 1 616 746<br>612                        |                          | - 54 349<br>- 877<br>- 2 768                          |                  |
| CHP - Cogénération - Cogeneración   |                              |                            |  |                                 |                            |                       |   |   |                                 |                                  |   |                              |   |                          |   |                  |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |                            |                       |   |   | - 64 804                        |                                  | 64 804  |                              |   |                          |   |                  |
| Charcoal - Charbon - Carbón   |                              |                            |  |                                 |                            |                       |   |   |                                 |                                  |   |                              |   |                          |   |                  |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |  |                                 |                            |                       |   |   |                                 |                                  |   |                              |   |                          |   |                  |
| Other - Autres - Otras  |                              |                            |  |                                 |                            |                       |   |   |                                 |                                  |   |                              |   |                          |   |                  |
| Own use - Consomm. propre - Uso propio  |                              |                            |  |                                 |                            |                       |   |   |                                 |                                  |   |                              |   |                          |   |                  |
| Distribution - Distribution - Distribución  |                              |                            |  |                                 |                            |                       |   |   |                                 |                                  |   |                              |   |                          |   |                  |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |                                 |                            |                       |   |   |                                 |                                  |   |                              |   |                          |   |                  |
| <b>Total - Total - Total</b>  |                              |                            |  | <b>1 397</b>                    |                            |                       |   |   | <b>177 529<br/>241 232</b>      | <b>103 499</b>                   | <b>3 005</b>                                      | <b>135 636</b>               | <b>2 648</b>                            | <b>1 388 023</b>         | <b>4 094</b>  | <b>1 815 832</b> |
| Industry - Industrie - Industria  |                              |                            |  |                                 |                            |                       |   |   |                                 | 2 360                            |   |                              |   | 472 500                  | 3 875   | <b>719 967</b>   |
| Transport - Transport - Transporte  |                              |                            |  |                                 |                            |                       |   |   |                                 | 103 499                          |   |                              |   | 20 981                   |   | <b>124 480</b>   |
| Commerce - Commerce - Comercial   |                              |                            |  |                                 |                            |                       |   |   |                                 |                                  | 638   |                              |   | 367 598                  | 83  | <b>368 319</b>   |
| Residential - Résidentiel - Residencial   |                              |                            |  |                                 |                            |                       |   |   |                                 |                                  | 135 636   |                              |   | 444 899                  |   | <b>519 480</b>   |
| Other - Autres - Otros  |                              |                            |  | <b>1 397</b>                    |                            |                       |   |   |                                 |                                  | 7   |                              |   | 82 046                   | 136   | <b>83 586</b>    |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |                                 |                            |                       |   |   |                                 |                                  |   |                              |   |                          |   |                  |
| <b>Total - Total - Total</b>  | <b>1 228 449</b>             | <b>113 859</b>             | <b>17 725</b>                                  | <b>1 397</b>                    |                            |                       | <b>2 893</b>                                | <b>202 579<br/>25 050</b>   | <b>103 499</b>                  | <b>7 147</b>                     | <b>135 636</b>                                    | <b>2 648</b>                 |   |                          |   | <b>1 815 832</b> |
| Electricity - Électricité - Electrica   | 1 228 449                    | 113 859                    | 17 725   |                                 |                            |                       | 522   |   |                                 | 2 419                            |   |                              |   |                          |   | <b>1 388 023</b> |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |                            |                       | 2 371                                       |   |                                 | 1 723                            |   |                              |   |                          |   | <b>4 094</b>     |
| Direct use - Utilisation directe - Uso directo  |                              |                            |  | 1 397                           |                            |                       |   |   | 177 529                         | 103 499                          | 3 005   | 135 636                      | 2 648                                   |                          |   | <b>423 714</b>   |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |                                 |                            |                       |   |   |                                 |                                  |   |                              |   |                          |   |                  |
| Electricity - Électricité - Electrica (in/en GWh)   | 397 616                      | 36 853                     | 5 737  |                                 |                            |                       |   |   | 8 108                           |                                  | 783   |                              |   |                          |   | <b>449 266</b>   |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |  |                                 |                            |                       |   | 169   |                                 | 1 723                            |   |                              |   |                          |   | <b>4 094</b>     |
| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Éolica | Solar - Solaire - Solar                        |                                 | Geothermal<br>Géothermique | Other RE<br>Autres ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                                 |                                  | Pellets/briq.<br>Granules/briq.,<br>Pellets/briq. | Charcoal<br>Carbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total   |                  |
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica |                            |                       |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás      |   |                              |   |                          |   |                  |
| <b>Primary energy - Énergie primaire - Energía primaria</b>   |                              |                            |  |                                 |                            |                       |   |   |                                 |                                  |   |                              |   |                          |   |                  |
| Production - Production - Generación  | 1 381 867                    | 129 622                    | 18 407   | 1 448                           |                            |                       | 5 677                                       | 455 436<br>4 831<br>119 663   | 48 589<br>43 795<br>14 896      | 14 273                           | 1 058   | 5 248                        | 31 619                                  |                          | 2 055 319<br>86 551<br>- 68 135<br>7 221              |                  |
| Imports - Importations - Importaciones  |                              |                            |  |                                 |                            |                       |   | 2 006   |                                 |                                  |   | - 55 953                     | - 32                                    | - 146 708                |   |                  |
| Exports - Exportations - Exportaciones  |                              |                            |  |                                 |                            |                       |   | 127 420   | 109 266<br>- 19 873             | 14 273<br>- 156                  | - 54 894  | 10 431                       | - 115 090                               | 10 298                   | <b>2 080 956</b>                                      |                  |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>1 381 867</b>             | <b>129 622</b>             | <b>18 407</b>                                  | <b>1 448</b>                    |                            |                       | <b>5 677</b>                                | <b>579 929<br/>- 127 420</b>  | <b>109 266<br/>- 19 873</b>     | <b>14 273<br/>- 156</b>          |   |                              |   |                          | <b>- 137 151</b>                                      |                  |
| <i>Differences - écarts - Diferencias</i>   |                              |                            |  |                                 |                            |                       |   |   |                                 |                                  |   |                              |   |                          |   |                  |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |                                 |                            |                       |   |   |                                 |                                  |   |                              |   |                          |   |                  |
| Electricity - Électricité - Electrica   | -1 381 867                   | -129 622                   | - 18 407                                       |                                 |                            |                       |   | - 1 498<br>- 1 029<br>- 3 150   | - 87 394                        |                                  | - 7 018<br>- 1 202<br>- 2 970                     |                              | 1 565 485<br>612                        |                          | - 60 320<br>- 877<br>- 2 768                          |                  |
| CHP - Cogénération - Cogeneración   |                              |                            |  |                                 |                            |                       |   |   |                                 |                                  |   |                              |   |                          |   |                  |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |                            |                       |   |   | - 67 342                        |                                  | 67 342  |                              |   |                          |   |                  |
| Charcoal - Charbon - Carbón   |                              |                            |  |                                 |                            |                       |   |   |                                 |                                  |   |                              |   |                          |   |                  |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |  |                                 |                            |                       |   |   |                                 |                                  |   |                              |   |                          |   |                  |
| Other - Autres - Otras  |                              |                            |  |                                 |                            |                       |   |   |                                 |                                  |   |                              |   |                          |   |                  |
| Own use - Consomm. propre - Uso propio  |                              |                            |  |                                 |                            |                       |   |   |                                 |                                  |   |                              |   |                          |   |                  |
| Distribution - Distribution - Distribución  |                              |                            |  |                                 |                            |                       |   |   |                                 |                                  |   |                              |   |                          |   |                  |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  | <b>1 448</b>                    |                            |                       |   |   | <b>297 774<br/>254 221</b>      | <b>89 413</b>                    | <b>3 005</b>                                      | <b>12 447</b>                | <b>10 431</b>                           | <b>1 330 268</b>         | <b>4 094</b>  | <b>1 748 879</b> |
| <b>Total - Total - Total</b>  |                              |                            |  |                                 |                            |                       |   |   | 89 413                          |                                  | 2 360   |                              |   |                          |   | <b>689 270</b>   |
| Industry - Industrie - Industria  |                              |                            |  |                                 |                            |                       |   |   |                                 | 638                              |   |                              |   |                          |   | <b>108 738</b>   |
| Transport - Transport - Transporte  |                              |                            |  |                                 |                            |                       |   |   |                                 | 7                                |   | 12 447                       | 10 431                                  |                          |   | <b>355 178</b>   |
| Commerce - Commerce - Comercial   |                              |                            |  |                                 |                            |                       |   |   |                                 | 12 447                           |   | 10 431                       | 428 667                                 |                          |   | <b>515 097</b>   |
| Residential - Résidentiel - Residencial   |                              |                            |  |                                 |                            |                       |   |   |                                 |                                  | 79 001  |                              | 79 001                                  | 140                      |   | <b>80 596</b>    |
| Other - Autres - Otros  |                              |                            |  |                                 |                            |                       |   |   |                                 |                                  |   |                              |   |                          |   |                  |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |                                 |                            |                       |   |   |                                 |                                  |   |                              |   |                          |   |                  |
| <b>Total - Total - Total</b>  | <b>1 173 780</b>             | <b>110 103</b>             | <b>15 635</b>                                  | <b>1 448</b>                    |                            |                       | <b>2 888</b>                                | <b>325 613<br/>27 839</b>   | <b>89 413</b>                   | <b>7 122<br/>2 394<br/>1 723</b> | <b>12 447</b>                                     | <b>10 431</b>                |   |                          |   | <b>1 748 879</b> |
| Electricity - Électricité - Electrica   | 1 173 780                    | 110 103                    | 15 635   |                                 |                            |                       | 517   |   |                                 | 3 005                            |   |                              |   |                          |   | <b>1 330 268</b> |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |                            |                       | 2 371                                       |   |                                 |                                  |   |                              |   |                          |   | <b>4 094</b>     |
| Direct use - Utilisation directe - Uso directo  |                              |                            |  | 1 448                           |                            |                       |   |   | 297 774                         | 89 413                           | 3 005   | 12 447                       | 10 431                                  |                          |   | <b>414 518</b>   |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |                                 |                            |                       |   |   |                                 |                                  |   |                              |   |                          |   |                  |
| Electricity - Électricité - Electrica (in/en GWh)   | 383 852                      | 36 006                     | 5 113  |                                 |                            |                       |   |   | 9 104                           |                                  | 783   |                              |   |                          |   | <b>435 027</b>   |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |  |                                 |                            |                       |   | 169   |                                 | 1 723                            |   |                              |   |                          |   | <b>4 094</b>     |

## Central African Republic

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Eoliennes<br>Eólica | Solar - Solaire - Solar                               |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primaires -<br>Biocombustibles primarios   |                                 |                             | Pellets/briq.<br>Granules/briq.<br>Pellets/briq.      | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total         |
|---|------------------------------|-----------------------------|---|---------------------------------|--|-----------------------------------|---|---|---------------------------------|-----------------------------|---|-------------------------------|---|--------------------------|---------------|
|   |                              |                             | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás |   |                               |   |                          |               |
|   |                              |                             | Primary energy - Énergie primaire - Energía primaaria |                                 |  |                                   |   |   |                                 |                             | Primary energy - Énergie primaire - Energía primaaria |                               |   |                          |               |
| Production - Production - Generación  | 509                          |                             |   | 2                               |  |                                   |   |   | 22 680                          |                             |   |                               |   |                          | 23 190        |
| Imports - Importations - Importaciones  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |               |
| Exports - Exportations - Exportaciones  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |               |
| Stock - Stocks - Inventario (+/-)   |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |               |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>509</b>                   |                             |   | <b>2</b>                        |  |                                   |   |   | <b>22 680</b>                   |                             |   |                               |   |                          | <b>23 190</b> |
| Differences - Ecart - Diferencias   |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |               |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                             |   |                                 |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                                 |                             |   |                               |   |                          |               |
| Electricity - Électricité - Electrica   | - 509                        |                             |   | - 2                             |  |                                   |   |   |                                 |                             |   |                               |   |                          |               |
| CHP - Cogénération - Cogeneración   |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |               |
| Heat - Chaleur - Calor  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |               |
| Charcoal - Charbon - Carbón   |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |               |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |               |
| Other - Autres - Otras  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |               |
| Own use - Consomm. propre - Uso propio  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |               |
| Distribution - Distribution - Distribución  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |               |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                             |   |                                 |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                                 |                             |   |                               |   |                          |               |
| Total - Total - Total   |                              |                             |   |                                 |  |                                   |   | 6 700   |                                 |                             |   | 7 234                         | 510                                     |                          | 14 444        |
| Industry - Industrie - Industria  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   | 210                           |   |                          |               |
| Transport - Transport - Transporte  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   | 31                            |   |                          |               |
| Commerce - Commerce - Comercial   |                              |                             |   |                                 |  |                                   |   | 6 700   |                                 |                             |   | 240                           |   |                          | 6 940         |
| Residential - Résidentiel - Residencial   |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   | 28                            |   |                          | 7 262         |
| Other - Autres - Otros  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |               |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                             |   |                                 |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                                 |                             |   |                               |   |                          |               |
| Total - Total - Total   | 509                          |                             | 2   |                                 |  |                                   |   | 6 700   |                                 |                             |   | 7 234                         | 510                                     |                          | 14 444        |
| Electricity - Électricité - Electrica   | 509                          |                             | 2   |                                 |  |                                   |   |   |                                 |                             |   |                               | 510                                     |                          |               |
| Heat - Chaleur - Calor  |                              |                             |   |                                 |  |                                   |   | 6 700   |                                 |                             |   | 7 234                         |   |                          | 13 934        |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                             |   |                                 |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                                 |                             |   |                               |   |                          |               |
| Electricity - Électricité - Electrica (in/en GWh)   | 141                          |                             | 0   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          | 142           |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |               |
| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Eoliennes<br>Eólica | Solar - Solaire - Solar                               |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primaires -<br>Biocombustibles primarios   |                                 |                             | Pellets/briq.<br>Granules/briq.<br>Pellets/briq.      | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total         |
|   |                              |                             | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás |   |                               |   |                          |               |
|   |                              |                             | Primary energy - Énergie primaire - Energía primaaria |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |               |
| Production - Production - Generación  | 509                          |                             | 2   |                                 |  |                                   |   | 22 680  |                                 |                             |   |                               |   |                          | 23 190        |
| Imports - Importations - Importaciones  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |               |
| Exports - Exportations - Exportaciones  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |               |
| Stock - Stocks - Inventario (+/-)   |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |               |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>509</b>                   |                             | <b>2</b>  |                                 |  |                                   |   | <b>22 680</b>   |                                 |                             |   |                               |   |                          | <b>23 190</b> |
| Differences - Ecart - Diferencias   |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |               |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                             |   |                                 |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                                 |                             |   |                               |   |                          |               |
| Electricity - Électricité - Electrica   | - 509                        |                             | - 2   |                                 |  |                                   |   |   |                                 |                             |   | 510                           |   |                          |               |
| CHP - Cogénération - Cogeneración   |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |               |
| Heat - Chaleur - Calor  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |               |
| Charcoal - Charbon - Carbón   |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |               |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |               |
| Other - Autres - Otras  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |               |
| Own use - Consomm. propre - Uso propio  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |               |
| Distribution - Distribution - Distribución  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |               |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                             |   |                                 |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                                 |                             |   |                               |   |                          |               |
| Total - Total - Total   |                              |                             |   |                                 |  |                                   |   | 6 944   |                                 |                             |   | 7 123                         | 476                                     |                          | 14 543        |
| Industry - Industrie - Industria  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   | 196                           |   |                          |               |
| Transport - Transport - Transporte  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   | 30                            |   |                          |               |
| Commerce - Commerce - Comercial   |                              |                             |   |                                 |  |                                   |   | 6 944   |                                 |                             |   | 224                           |   |                          | 30            |
| Residential - Résidentiel - Residencial   |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   | 26                            |   |                          | 7 168         |
| Other - Autres - Otros  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          | 7 149         |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                             |   |                                 |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                                 |                             |   |                               |   |                          |               |
| Total - Total - Total   | 474                          |                             | 1   |                                 |  |                                   |   | 6 944   |                                 |                             |   | 7 123                         | 476                                     |                          | 14 543        |
| Electricity - Électricité - Electrica   | 474                          |                             | 1   |                                 |  |                                   |   |   |                                 |                             |   |                               | 476                                     |                          |               |
| Heat - Chaleur - Calor  |                              |                             |   |                                 |  |                                   |   | 6 944   |                                 |                             |   | 7 123                         |   |                          |               |
| Direct use - Utilisation directe - Uso directo  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          | 14 067        |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                             |   |                                 |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                                 |                             |   |                               |   |                          |               |
| Electricity - Électricité - Electrica (in/en GWh)   | 141                          |                             | 0   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          | 142           |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |               |

## Chad

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Eoliennes<br>Eólica | Solar - Solaire - Solar                              |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica  | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                             |  | Pellets/briq.<br>Granules/briq.<br>Pellets/briq.  | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total    |        |
|---|------------------------------|-----------------------------|--|---------------------------------|-------------------------------|---|-----------------------------------|---|---|-----------------------------|--|---|-------------------------------|---|--------------------------|----------|--------|
|   |                              |                             | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica       | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |   |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás |  |   |                               |   |                          |          |        |
|   |                              |                             | Primary energy - Énergie primaire - Energía primaria |                                 |                               |   |                                   |   | Primary energy - Énergie primaire - Energía primaria                        |                             |  |   |                               |   |                          |          |        |
| Production - Production - Generación  |                              |                             | 32   | 9                               |                               |   |                                   |   | 96 607  |                             |  |   |                               |   | 96 648                   |          |        |
| Imports - Importations - Importaciones  |                              |                             |  |                                 |                               |   |                                   |   |   |                             |  |   |                               |   | 0                        | - 0      |        |
| Exports - Exportations - Exportaciones  |                              |                             |  |                                 |                               |   |                                   |   |   |                             |  |   |                               |   |                          | - 0      |        |
| Stock - Stocks - Inventario (+/-)   |                              |                             | 32   | 9                               |                               |   |                                   |   | 96 607  |                             |  |   |                               |   | 96 648                   |          |        |
| <b>Supply - Approvisionnement - Oferta</b>  |                              |                             |  |                                 |                               |   |                                   |   |   |                             |  |   |                               |   |                          |          |        |
| Differences - Ecarts - Diferencias  |                              |                             |  |                                 |                               |   |                                   |   |   |                             |  |   |                               |   |                          |          |        |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                             |  |                                 |                               | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                                   |   |   |                             |  | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                               |   |                          |          |        |
| Electricity - Électricité - Electrica   |                              |                             | - 32   | - 9                             |                               |   |                                   |   |   |                             |  |   |                               |   | - 1                      |          |        |
| CHP - Cogénération - Cogeneración   |                              |                             |  |                                 |                               |   |                                   |   |   |                             |  |   |                               |   | - 31                     |          |        |
| Heat - Chaleur - Calor  |                              |                             |  |                                 |                               |   |                                   |   |   |                             |  |   |                               |   |                          | - 20 140 |        |
| Charcoal - Charbon - Carbón   |                              |                             |  |                                 |                               |   |                                   |   |   |                             |  |   |                               |   |                          |          |        |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                             |  |                                 |                               |   |                                   |   |   |                             |  |   |                               |   |                          |          |        |
| Other - Autres - Otras  |                              |                             |  |                                 |                               |   |                                   |   |   |                             |  |   |                               |   |                          |          |        |
| Own use - Consomm. propre - Uso propio  |                              |                             |  |                                 |                               |   |                                   |   |   |                             |  |   |                               |   |                          |          |        |
| Distribution - Distribution - Distribución  |                              |                             |  |                                 |                               |   |                                   |   |   |                             |  |   |                               |   |                          |          |        |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                             |  |                                 |                               | <b>Final consumption - Consommation finale - Consumo final</b>  |                                   |   |   |                             |  | <b>Final consumption - Consommation finale - Consumo final</b>  |                               |   |                          |          |        |
| <b>Total - Total - Total</b>  |                              |                             |  |                                 |                               |   |                                   |   | 59 747  |                             |  |   | 16 657                        |   | 72                       |          |        |
| Industry - Industrie - Industria  |                              |                             |  |                                 |                               |   |                                   |   | 890   |                             |  |   |                               |   | 27                       |          |        |
| Transport - Transport - Transporte  |                              |                             |  |                                 |                               |   |                                   |   |   |                             |  |   |                               |   |                          | 4        |        |
| Commerce - Commerce - Comercial   |                              |                             |  |                                 |                               |   |                                   |   | 58 856  |                             |  |   | 16 657                        |   | 32                       |          |        |
| Residential - Résidentiel - Residencial   |                              |                             |  |                                 |                               |   |                                   |   |   |                             |  |   |                               |   | 9                        |          |        |
| Other - Autres - Otros  |                              |                             |  |                                 |                               |   |                                   |   |   |                             |  |   |                               |   |                          |          |        |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                             |  |                                 |                               | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                                   |   |   |                             |  | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                               |   |                          |          |        |
| <b>Total - Total - Total</b>  |                              |                             | 32   | 9                               |                               |   |                                   |   | 59 778  |                             |  |   | 16 657                        |   |                          |          | 76 476 |
| Electricity - Électricité - Electrica   |                              |                             | 32   | 9                               |                               |   |                                   |   | 31  |                             |  |   |                               |   |                          | 72       |        |
| Heat - Chaleur - Calor  |                              |                             |  |                                 |                               |   |                                   |   | 59 747  |                             |  |   | 16 657                        |   |                          |          | 76 404 |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                             |  |                                 |                               | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                                   |   |   |                             |  | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                               |   |                          |          |        |
| Electricity - Électricité - Electrica (in/en GWh)   |                              |                             | 9  | 3                               |                               |   |                                   |   | 9   |                             |  |   |                               |   |                          | 20       |        |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                             |  |                                 |                               |   |                                   |   |   |                             |  |   |                               |   |                          |          |        |
| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Eoliennes<br>Eólica | Solar - Solaire - Solar                              |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica  | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                             |  | Pellets/briq.<br>Granules/briq.<br>Pellets/briq.  | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total    |        |
|   |                              |                             | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica       | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |   |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás |  |   |                               |   |                          |          |        |
|   |                              |                             | Primary energy - Énergie primaire - Energía primaria |                                 |                               |   |                                   |   | Primary energy - Énergie primaire - Energía primaria                        |                             |  |   |                               |   |                          |          |        |
| Production - Production - Generación  |                              |                             | 32   | 9                               |                               |   |                                   |   | 95 287  |                             |  |   |                               |   | 0                        |          | 95 328 |
| Imports - Importations - Importaciones  |                              |                             |  |                                 |                               |   |                                   |   |   |                             |  |   |                               |   | - 0                      |          |        |
| Exports - Exportations - Exportaciones  |                              |                             |  |                                 |                               |   |                                   |   | 95 287  |                             |  |   |                               |   | - 0                      |          |        |
| Stock - Stocks - Inventario (+/-)   |                              |                             |  |                                 |                               |   |                                   |   |   |                             |  |   |                               |   |                          |          |        |
| <b>Supply - Approvisionnement - Oferta</b>  |                              |                             |  |                                 |                               |   |                                   |   |   |                             |  |   |                               |   |                          |          |        |
| Differences - Ecarts - Diferencias  |                              |                             |  |                                 |                               |   |                                   |   |   |                             |  |   |                               |   |                          |          |        |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                             |  |                                 |                               | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                                   |   |   |                             |  | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                               |   |                          |          |        |
| Electricity - Électricité - Electrica   |                              |                             | - 32   | - 9                             |                               |   |                                   |   |   |                             |  |   |                               |   | - 3                      |          |        |
| CHP - Cogénération - Cogeneración   |                              |                             |  |                                 |                               |   |                                   |   |   |                             |  |   |                               |   | - 30                     |          |        |
| Heat - Chaleur - Calor  |                              |                             |  |                                 |                               |   |                                   |   |   |                             |  |   |                               |   |                          | - 19 658 |        |
| Charcoal - Charbon - Carbón   |                              |                             |  |                                 |                               |   |                                   |   |   |                             |  |   |                               |   |                          |          |        |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                             |  |                                 |                               |   |                                   |   |   |                             |  |   |                               |   |                          |          |        |
| Other - Autres - Otras  |                              |                             |  |                                 |                               |   |                                   |   |   |                             |  |   |                               |   |                          |          |        |
| Own use - Consomm. propre - Uso propio  |                              |                             |  |                                 |                               |   |                                   |   |   |                             |  |   |                               |   |                          |          |        |
| Distribution - Distribution - Distribución  |                              |                             |  |                                 |                               |   |                                   |   |   |                             |  |   |                               |   |                          |          |        |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                             |  |                                 |                               | <b>Final consumption - Consommation finale - Consumo final</b>  |                                   |   |   |                             |  | <b>Final consumption - Consommation finale - Consumo final</b>  |                               |   |                          |          |        |
| <b>Total - Total - Total</b>  |                              |                             |  |                                 |                               |   |                                   |   | 59 308  |                             |  |   | 16 259                        |   | 71                       |          | 75 637 |
| Industry - Industrie - Industria  |                              |                             |  |                                 |                               |   |                                   |   | 892   |                             |  |   |                               |   | 26                       |          | 918    |
| Transport - Transport - Transporte  |                              |                             |  |                                 |                               |   |                                   |   |   |                             |  |   |                               |   | 4                        |          |        |
| Commerce - Commerce - Comercial   |                              |                             |  |                                 |                               |   |                                   |   | 58 416  |                             |  |   | 16 259                        |   | 31                       |          | 74 706 |
| Residential - Résidentiel - Residencial   |                              |                             |  |                                 |                               |   |                                   |   |   |                             |  |   |                               |   | 9                        |          | 9      |
| Other - Autres - Otros  |                              |                             |  |                                 |                               |   |                                   |   |   |                             |  |   |                               |   |                          |          |        |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                             |  |                                 |                               | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                                   |   |   |                             |  | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                               |   |                          |          |        |
| <b>Total - Total - Total</b>  |                              |                             | 32   | 9                               |                               |   |                                   |   | 59 338  |                             |  |   | 16 259                        |   |                          |          | 75 637 |
| Electricity - Électricité - Electrica   |                              |                             | 32   | 9                               |                               |   |                                   |   | 30  |                             |  |   |                               |   |                          |          | 71     |
| Heat - Chaleur - Calor  |                              |                             |  |                                 |                               |   |                                   |   | 59 308  |                             |  |   | 16 259                        |   |                          |          | 75 567 |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                             |  |                                 |                               | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                                   |   |   |                             |  | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                               |   |                          |          |        |
| Electricity - Électricité - Electrica (in/en GWh)   |                              |                             | 9  | 3                               |                               |   |                                   |   | 8   |                             |  |   |                               |   |                          |          | 20     |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                             |  |                                 |                               |   |                                   |   |   |                             |  |   |                               |   |                          |          |        |

## Chile

## Chile

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                        |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                                 | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total          |
|---|--|----------------------------|--|---------------------------------|--|-----------------------------------|---|---|---------------------------------|--|-------------------------------|---|--------------------------|----------------|
|   |  |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Solídos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás                      |                               |   |                          |                |
| <b>Primary energy - Énergie primaire - Energía primaria</b>   |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |                |
| Production - Production - Generación  | 74 462                                       | 32 015                     | 56 170   |                                 | 16 770                                   |                                   |   | 359 636   |                                 | 4 844  |                               |   | - 19                     | 543 897        |
| Imports - Importations - Importaciones  |  |                            |  |                                 |  |                                   |   | 872   |                                 |  |                               |   | - 19                     | - 19           |
| Exports - Exportations - Exportaciones  |  |                            |  |                                 |  |                                   |   | 360 508   |                                 | 4 844  |                               |   | 872                      | 544 750        |
| Stock - Stocks - Inventario (+/-)   |  |                            |  |                                 | 16 770                                   |                                   |   | 945   |                                 | 1  |                               |   | - 19                     | 9 609          |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>74 462</b>                                | <b>32 015</b>              | <b>56 170</b>                                  |                                 | <b>16 770</b>                            |                                   |   | <b>360 508</b>  |                                 | <b>4 844</b>                                     |                               |   | <b>8 663</b>             | <b>544 750</b> |
| <i>Differences - Ecarts - Diferencias</i>   |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |                |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |                |
| Electricity - Électricité - Electrica   | - 74 462                                     | - 32 015                   | - 56 170                                       |                                 | - 16 770                                 |                                   |   | - 20 785  |                                 | - 2 873  |                               |   | 165 431                  | - 37 644       |
| CHP - Cogénération - Cogeneración   |  |                            |  |                                 |  |                                   |   | - 145 019   |                                 | - 573  |                               |   | 16 542                   | - 129 050      |
| Heat - Chaleur - Calor  |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |                |
| Charcoal - Charbon - Carbón   |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |                |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |                |
| Other - Autres - Otras  |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |                |
| Own use - Consomm. propre - Uso propio  |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |                |
| Distribution - Distribution - Distribución  |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |                |
| <b>Final consumption - Consommation finale - Consumo final</b>  |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |                |
| Total - Total - Total   |  |                            |  |                                 |  |                                   |   | 195 250   |                                 | 656  |                               |   | 160 671                  | 356 578        |
| Industry - Industrie - Industria  |  |                            |  |                                 |  |                                   |   | 87 346  |                                 | 127  |                               |   | 100 346                  | 187 820        |
| Transport - Transport - Transporte  |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   | 3 000                    | 3 000          |
| Commerce - Commerce - Comercial   |  |                            |  |                                 |  |                                   |   | 2 077   |                                 | 293  |                               |   | 25 175                   | 27 546         |
| Residential - Résidentiel - Residencial   |  |                            |  |                                 |  |                                   |   | 105 827   |                                 | 235  |                               |   | 32 150                   | 138 212        |
| Other - Autres - Otros  |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |                |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |                |
| Total - Total - Total   | 65 746                                       | 28 267                     | 49 594   | 979                             | 1 479                                    |                                   |   | 209 643   |                                 | 869  |                               |   |                          | 356 578        |
| Electricity - Électricité - Electrica   | 65 746                                       | 28 267                     | 49 594   | 979                             | 1 479                                    |                                   |   | 14 393  |                                 | 213  |                               |   |                          | 160 671        |
| Heat - Chaleur - Calor  |  |                            |  |                                 |  |                                   |   | 195 250   |                                 | 656  |                               |   |                          | 195 906        |
| Direct use - Utilisation directe - Uso directo  |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |                |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |                |
| Electricity - Électricité - Electrica (in/en GWh)   | 20 684                                       | 8 893                      | 15 603   | 308                             | 465                                      |                                   |   | 4 528   |                                 | 67   |                               |   |                          | 50 548         |
| Heat - Chaleur - Calor (in/en TJ)   |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |                |

| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                        |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                                 | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total        |
|---|--|----------------------------|--|---------------------------------|--|-----------------------------------|---|---|---------------------------------|--|-------------------------------|---|--------------------------|--------------|
|   |  |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Solídos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás                      |                               |   |                          |              |
| <b>Primary energy - Énergie primaire - Energía primaria</b>   |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |              |
| Production - Production - Generación  | 69 651                                       | 27 461                     | 37 961   |                                 | 11 658                                   |                                   |   | 330 943   |                                 | 3 511  |                               |   |                          | 481 185      |
| Imports - Importations - Importaciones  |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |              |
| Exports - Exportations - Exportaciones  |  |                            |  |                                 |  |                                   |   | 867   |                                 |  |                               |   |                          | 867          |
| Stock - Stocks - Inventario (+/-)   |  |                            |  |                                 | 37 961                                   |                                   |   | 331 809   |                                 | 3 511  |                               |   |                          | 482 051      |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>69 651</b>                                | <b>27 461</b>              | <b>37 961</b>                                  |                                 | <b>11 658</b>                            |                                   |   | <b>8 832</b>  |                                 | <b>- 34</b>                                      |                               |   |                          | <b>8 712</b> |
| <i>Differences - Ecarts - Diferencias</i>   |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |              |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |              |
| Electricity - Électricité - Electrica   | - 69 651                                     | - 27 461                   | - 37 961                                       |                                 | - 11 658                                 |                                   |   | - 209 117   |                                 | - 2 357  |                               |   | 136 666                  | - 10 065     |
| CHP - Cogénération - Cogeneración   |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   | 20 176                   | - 191 298    |
| Heat - Chaleur - Calor  |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |              |
| Charcoal - Charbon - Carbón   |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |              |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |              |
| Other - Autres - Otras  |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |              |
| Own use - Consomm. propre - Uso propio  |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |              |
| Distribution - Distribution - Distribución  |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |              |
| <b>Final consumption - Consommation finale - Consumo final</b>  |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |              |
| Total - Total - Total   |  |                            |  |                                 |  |                                   |   | 131 524   |                                 | 549  |                               |   | 135 111                  | 267 184      |
| Industry - Industrie - Industria  |  |                            |  |                                 |  |                                   |   | 54 946  |                                 | 214  |                               |   | 83 897                   | 139 057      |
| Transport - Transport - Transporte  |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   | 2 202                    | 2 202        |
| Commerce - Commerce - Comercial   |  |                            |  |                                 |  |                                   |   | 607   |                                 | 281  |                               |   | 22 527                   | 23 416       |
| Residential - Résidentiel - Residencial   |  |                            |  |                                 |  |                                   |   | 75 971  |                                 | 55   |                               |   | 26 484                   | 102 509      |
| Other - Autres - Otros  |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |              |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |              |
| Total - Total - Total   | 60 001                                       | 23 656                     | 32 701   | 368                             | 1 005                                    |                                   |   | 148 712   |                                 | 742  |                               |   |                          | 267 184      |
| Electricity - Électricité - Electrica   | 60 001                                       | 23 656                     | 32 701   | 368                             | 1 005                                    |                                   |   | 17 188  |                                 | 192  |                               |   |                          | 135 111      |
| Heat - Chaleur - Calor  |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |              |
| Direct use - Utilisation directe - Uso directo  |  |                            |  |                                 |  |                                   |   | 131 524   |                                 | 549  |                               |   |                          | 132 074      |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |              |
| Electricity - Électricité - Electrica (in/en GWh)   | 19 348                                       | 7 628                      | 10 545   | 119                             | 324                                      |                                   |   | 5 542   |                                 | 62   |                               |   |                          | 43 567       |
| Heat - Chaleur - Calor (in/en TJ)   |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |              |

# China

# China

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                               |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios   |                             |                | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica                           | Heat<br>Chaleur<br>Calor                           | Total   |  |  |  |
|---|------------------------------|----------------------------|---|---------------------------------|-------------------------------|--|-----------------------------------|---|---|-----------------------------|----------------|--|-------------------------------|---|--|---|--|--|--|
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Solidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás |                |  |                               |   |  |   |  |  |  |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaaria |                                 |                               |  |                                   |   | Primary energy - Énergie primaire - Energía primaaria   |                             |                |  |                               |   |  |   |  |  |  |
| Production - Production - Generación  | 4 694 063                    | 2 748 034                  | 1 541 312   | 1 908 490                       | 1 875 415                     |  |                                   | 569 160                                     | 2 748 888<br>244<br>- 11  | 96 589                      | 361 444        |  | - 139                         | 17 162<br>- 1 540   | 7 582<br>- 21 465                                  |   | 16 543 396<br>24 988<br>- 23 155                   |  |  |
| Imports - Importations - Importaciones  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |                |  |                               |   |  |   |  |  |  |
| Exports - Exportations - Exportaciones  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |                |  |                               |   |  |   |  |  |  |
| Stock - Stocks - Inventario (+/-)   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |                |  |                               |   |  |   |  |  |  |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>4 694 063</b>             | <b>2 748 034</b>           | <b>1 541 312</b>                                      | <b>1 908 490</b>                | <b>1 875 415</b>              |  |                                   | <b>569 160</b>                              | <b>2 749 122</b>  | <b>96 589</b>               | <b>361 444</b> |  | <b>- 139</b>                  | <b>15 622</b>   | <b>- 13 883</b><br><i>107</i>                      | <b>- 0</b>  | <b>16 545 230</b><br><b>107</b>                    |  |  |
| Differences - écarts - Diferencias  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |                |  |                               |   |  |   |  |  |  |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |   |                                 |                               |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                             |                |  |                               |   |  |   |  |  |  |
| Electricity - Électricité - Eléctrica   | -4 694 063                   | -2 748 034                 | -1 541 312  | - 225                           | - 5 166                       |  |                                   | - 569 160                                   | - 773 280<br>- 34 339<br>- 106 867<br>- 14 771  |                             | - 58 320       |  |                               | 14 771  | 48 376   |   | 9 450 921<br>17 170                                |  |  |
| CHP - Cogénération - Cogeneración   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |                |  |                               |   |  |   | - 938 639<br>- 17 170<br>- 58 491<br>- 0           |  |  |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |                |  |                               |   |  |   |  |  |  |
| Charcoal - Charbon - Carbón   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |                |  |                               |   |  |   |  |  |  |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |                |  |                               |   |  |   |  |  |  |
| Other - Autres - Otras  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |                |  |                               |   |  |   |  |  |  |
| Own use - Consomm. propre - Uso propio  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |                |  |                               |   |  |   |  |  |  |
| Distribution - Distribution - Distribución  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |                |  |                               |   |  |   | - 1172 187<br>- 327 285                            |  |  |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |   |                                 |                               |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                             |                |  |                               |   |  |   |  |  |  |
| Total - Total - Total   |                              |                            |   | 1 908 265                       | 1 870 249                     |  |                                   |   | 1 819 864<br>212 168<br>241 154<br>1 366 542  | 96 589<br>87 838<br>8 752   | 303 124        | 14 632<br>14 632                                 | 63 998<br>9 600<br>54 398     | 7 939 936<br>4 750 503<br>1 294 309<br>1 488 242<br>188 920       | 14 907<br>10 464<br>350<br>3 644<br>448            | 14 031 565<br>4 987 768<br>305 798<br>1 545 414<br>5 124 215              | 14 031 565   |  |  |
| Industry - Industrie - Industria  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |                |  |                               |   |  |   |  |  |  |
| Transport - Transport - Transporte  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |                |  |                               |   |  |   |  |  |  |
| Commerce - Commerce - Comercial   |                              |                            |   | 1 908 265                       |                               |  |                                   |   |   |                             |                |  |                               |   |  |   |  |  |  |
| Residential - Résidentiel - Residencial   |                              |                            |   |                                 | 1 870 249                     |  |                                   |   |   |                             |                |  |                               |   |  |   |  |  |  |
| Other - Autres - Otros  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |                |  |                               |   |  |   |  |  |  |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |   |                                 |                               |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                             |                |  |                               |   |  |   |  |  |  |
| Total - Total - Total   | 3 943 590                    | 2 308 687                  | 1 294 892   | 1 908 328                       | 1 870 683                     |  |                                   | 159 388                                     | 2 051 322   | 96 589                      | 319 456        | 14 632   | 63 998                        |   |  |   | 14 031 565   |  |  |
| Electricity - Électricité - Eléctrica   | 3 943 590                    | 2 308 687                  | 1 294 892   | 63                              | 434                           |  |                                   |   | 216 550<br>14 907   | 16 332                      |                |  |                               |   |  |   | 7 939 936<br>14 907                                |  |  |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |                               |  |                                   |   | 1819 864  | 96 589                      | 303 124        | 14 632   | 63 998                        |   |  |   | 6 076 722  |  |  |
| Direct use - Utilisation directe - Uso directo  |                              |                            |   | 1 908 265                       | 1 870 249                     |  |                                   |   |   |                             |                |  |                               |   |  |   |  |  |  |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |   |                                 |                               |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                             |                |  |                               |   |  |   |  |  |  |
| Electricity - Électricité - Eléctrica (in/en GWh)   | 1 303 907                    | 763 343                    | 428 142   | 21                              | 144                           |  |                                   | 52 700                                      | 71 600<br>17 170  |                             | 5 400          |  |                               |   |  |   | 2 625 256  |  |  |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |                |  |                               |   |  |   | 17 170   |  |  |
| 2021 (In/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                               |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios   |                             |                | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica                           | Heat<br>Chaleur<br>Calor                           | Total   |  |  |  |
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Solidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás |                |  |                               |   |  |   |  |  |  |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaaria |                                 |                               |  |                                   |   | Primary energy - Énergie primaire - Energía primaaria   |                             |                |  |                               |   |  |   |  |  |  |
| Production - Production - Generación  | 4 682 183                    | 2 364 139                  | 1 179 109   | 1 836 236                       | 1 691 972                     |  |                                   | 495 720                                     | 2 732 819<br>235<br>- 25  | 99 234                      | 353 884        |  | - 73                          | 8 065<br>- 1 820  | 6 020<br>- 20 451                                  |   | 15 435 295<br>14 320<br>- 22 369                   |  |  |
| Imports - Importations - Importaciones  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |                |  |                               |   |  |   |  |  |  |
| Exports - Exportations - Exportaciones  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |                |  |                               |   |  |   |  |  |  |
| Stock - Stocks - Inventario (+/-)   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |                |  |                               |   |  |   |  |  |  |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>4 682 183</b>             | <b>2 364 139</b>           | <b>1 179 109</b>                                      | <b>1 836 236</b>                | <b>1 691 972</b>              |  |                                   | <b>495 720</b>                              | <b>2 733 029</b>  | <b>99 234</b>               | <b>353 884</b> |  | <b>- 73</b>                   | <b>6 245</b><br>- 10  | <b>- 14 431</b><br>- 0                             | <b>15 427 246</b><br>- 10   |  |  |  |
| Differences - écarts - Diferencias  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |                |  |                               |   |  |   |  |  |  |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |   |                                 |                               |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                             |                |  |                               |   |  |   |  |  |  |
| Electricity - Électricité - Eléctrica   | -4 682 183                   | -2 364 139                 | -1 179 109  | - 225                           | - 5 166                       |  |                                   | - 495 720                                   | - 725 760<br>- 33 690<br>- 107 772<br>- 14 771  |                             | - 50 760       |  |                               | 14 771  | 48 786   |   | 8 650 102<br>16 845<br>- 16 845<br>- 58 987<br>- 0 |  |  |
| CHP - Cogénération - Cogeneración   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |                |  |                               |   |  |   |  |  |  |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |                |  |                               |   |  |   |  |  |  |
| Charcoal - Charbon - Carbón   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |                |  |                               |   |  |   |  |  |  |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |                |  |                               |   |  |   |  |  |  |
| Other - Autres - Otras  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |                |  |                               |   |  |   |  |  |  |
| Own use - Consomm. propre - Uso propio  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |                |  |                               |   |  |   |  |  |  |
| Distribution - Distribution - Distribución  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |                |  |                               |   |  |   | - 1 042 110<br>- 330 166                           |  |  |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |   |                                 |                               |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                             |                |  |                               |   |  |   |  |  |  |
| Total - Total - Total   |                              |                            |   | 1 836 011                       | 1 686 806                     |  |                                   |   | 1 851 036<br>212 102<br>245 840<br>1 393 094  | 99 234<br>91 023<br>8 212   | 303 124        | 14 698   | 55 031                        | 7 265 605<br>4 483 074<br>201 978<br>1 173 196<br>8 255<br>46 776 | 14 625<br>10 266<br>344<br>3 575<br>162 967<br>440 | 13 126 170<br>4 720 140<br>293 001<br>1 427 634<br>1 426 970<br>1 858 424 | 13 126 170   |  |  |
| Industry - Industrie - Industria  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |                |  |                               |   |  |   |  |  |  |
| Transport - Transport - Transporte  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |                |  |                               |   |  |   |  |  |  |
| Commerce - Commerce - Comercial   |                              |                            |   | 1 836 011                       | 1 686 806                     |  |                                   |   |   |                             |                |  |                               |   |  |   |  |  |  |
| Residential - Résidentiel - Residencial   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |                |  |                               |   |  |   |  |  |  |
| Other - Autres - Otros  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |                |  |                               |   |  |   |  |  |  |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |   |                                 |                               |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                             |                |  |                               |   |  |   |  |  |  |
| Total - Total - Total   | 3 932 774                    | 1 985 745                  | 990 386   | 1 836 074                       | 1 687 240                     |  |                                   | 138 792                                     | 2 068 861<br>203 199<br>14 625<br>1 851 036   | 99 234                      | 317 336        | 14 698   | 55 031                        |   |  |   | 13 126 170<br>7 265 605<br>14 625<br>5 845 940     |  |  |
| Electricity - Électricité - Eléctrica   | 3 932 774                    | 1 985 745                  | 990 386   | 63                              | 434                           |  |                                   |   |   | 14 212                      |                | 14 698   | 55 031                        |   |  |   |  |  |  |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |                |  |                               |   |  |   |  |  |  |
| Direct use - Utilisation directe - Uso directo  |                              |                            |   | 1 836 011                       | 1 686 806                     |  |                                   |   |   |                             |                |  |                               |   |  |   |  |  |  |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |   |                                 |                               |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                             |                |  |                               |   |  |   |  |  |  |
| Electricity - Électricité - Eléctrica (in/en GWh)   | 1 300 607                    | 656 705                    | 327 530   | 21                              | 144                           |  |                                   | 45 900                                      | 67 200<br>16 845  |                             | 4 700          |  |                               |   |  |   | 2 402 806  |  |  |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |                |  |                               |   |  |   | 16 845   |  |  |

## Chinese Taipei

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                              |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios   |                             |            | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total          |
|---|------------------------------|----------------------------|--|---------------------------------|-------------------------------|--|-----------------------------------|---|---|-----------------------------|------------|--|-------------------------------|---|--------------------------|----------------|
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica       | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás |            |  |                               |   |                          |                |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaria |                                 |                               |  |                                   |   | Primary energy - Énergie primaire - Energía primaria  |                             |            |  |                               |   |                          |                |
| Production - Production - Generación  | 21 011                       | 12 755                     | 38 437   |                                 |                               |  |                                   | 31 689                                      | 7 170   | 0                           | 723        |  |                               |   |                          | 111 786        |
| Imports - Importations - Importaciones  |                              |                            |  |                                 |                               |  |                                   |   |   | 2                           |            |  |                               |   |                          | 2              |
| Exports - Exportations - Exportaciones  |                              |                            |  |                                 |                               |  |                                   |   |   | 0                           |            |  |                               |   |                          | 0              |
| Stock - Stocks - Inventario (+/-)   |                              |                            |  |                                 |                               |  |                                   |   |   | 0                           |            |  |                               |   |                          | 0              |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>21 011</b>                | <b>12 755</b>              | <b>38 437</b>  |                                 |                               |  |                                   | <b>31 689</b>                               | <b>7 170</b>  | <b>2</b>                    | <b>723</b> |  |                               |   |                          | <b>111 786</b> |
| Differences - écarts - Diferencias  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          | <b>111 786</b> |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |                                 |                               |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                             |            |  |                               |   |                          |                |
| Electricity - Électricité - Electrica   | - 21 011                     | - 12 755                   | - 38 437   |                                 |                               |  |                                   | - 24 809                                    | - 1 241   |                             | - 705      |  |                               |   |                          | - 562          |
| CHP - Cogénération - Cogeneración   |                              |                            |  |                                 |                               |  |                                   |   |   | - 0                         |            |  |                               |   |                          | - 19 133       |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |                |
| Charcoal - Charbon - Carbón   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |                |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |                |
| Other - Autres - Otras  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |                |
| Own use - Consomm. propre - Uso propio  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |                |
| Distribution - Distribution - Distribución  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |                |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |                                 |                               |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                             |            |  |                               |   |                          |                |
| <b>Total - Total - Total</b>  |                              |                            |  |                                 |                               |  |                                   | <b>6 880</b>                                | <b>5 929</b>  | <b>2</b>                    | <b>20</b>  |  |                               |   |                          | <b>84 484</b>  |
| Industry - Industrie - Industria  |                              |                            |  |                                 |                               |  |                                   | 6 880                                       | 5 929   | 2                           | 20         |  |                               |   |                          | <b>55 899</b>  |
| Transport - Transport - Transporte  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          | <b>464</b>     |
| Commerce - Commerce - Comercial   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          | <b>13 109</b>  |
| Residential - Résidentiel - Residencial   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          | <b>14 025</b>  |
| Other - Autres - Otros  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          | <b>897</b>     |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |                                 |                               |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                             |            |  |                               |   |                          |                |
| <b>Total - Total - Total</b>  | <b>18 994</b>                | <b>11 530</b>              | <b>34 747</b>  |                                 |                               |  |                                   | <b>12 746</b>                               | <b>6 314</b>  | <b>2</b>                    | <b>150</b> |  |                               |   |                          | <b>84 484</b>  |
| Electricity - Électricité - Electrica   | 18 994                       | 11 530                     | 34 747   |                                 |                               |  |                                   | 5 866                                       | 385   |                             | 130        |  |                               |   |                          | <b>71 652</b>  |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |                               |  |                                   | 6 880                                       | 5 929   | 2                           | 20         |  |                               |   |                          | <b>12 832</b>  |
| Direct use - Utilisation directe - Uso directo  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |                |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |                                 |                               |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                             |            |  |                               |   |                          |                |
| Electricity - Électricité - Electrica (in/en GWh)   | 5 837                        | 3 543                      | 10 677   |                                 |                               |  |                                   | 1 803                                       | 118   |                             | 40         |  |                               |   |                          | 22 017         |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |                |
| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                              |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios   |                             |            | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total          |
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica       | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás |            |  |                               |   |                          |                |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaria |                                 |                               |  |                                   |   | Primary energy - Énergie primaire - Energía primaria  |                             |            |  |                               |   |                          |                |
| Production - Production - Generación  | 12 509                       | 8 127                      | 28 693   | 3 352                           |                               |  |                                   | 31 301                                      | 7 143   | 0                           | 540        |  |                               |   |                          | 91 665         |
| Imports - Importations - Importaciones  |                              |                            |  |                                 |                               |  |                                   |   |   | 2                           |            |  |                               |   |                          | 2              |
| Exports - Exportations - Exportaciones  |                              |                            |  |                                 |                               |  |                                   |   |   | 0                           |            |  |                               |   |                          | 0              |
| Stock - Stocks - Inventario (+/-)   |                              |                            |  |                                 |                               |  |                                   |   |   | 0                           |            |  |                               |   |                          | 0              |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>12 509</b>                | <b>8 127</b>               | <b>28 693</b>  | <b>3 352</b>                    |                               |  |                                   | <b>31 301</b>                               | <b>7 143</b>  | <b>2</b>                    | <b>540</b> |  |                               |   |                          | <b>91 667</b>  |
| Differences - écarts - Diferencias  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          | 0              |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |                                 |                               |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                             |            |  |                               |   |                          |                |
| Electricity - Électricité - Electrica   | - 12 509                     | - 8 127                    | - 28 693   |                                 |                               |  |                                   | - 24 938                                    | - 1 382   |                             | - 396      |  |                               |   |                          | - 342          |
| CHP - Cogénération - Cogeneración   |                              |                            |  |                                 |                               |  |                                   |   |   | - 0                         |            |  |                               |   |                          | - 19 182       |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |                |
| Charcoal - Charbon - Carbón   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |                |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |                |
| Other - Autres - Otras  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |                |
| Own use - Consomm. propre - Uso propio  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |                |
| Distribution - Distribution - Distribución  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |                |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |                                 |                               |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                             |            |  |                               |   |                          |                |
| <b>Total - Total - Total</b>  |                              |                            |  |                                 | <b>3 352</b>                  |  |                                   | <b>6 363</b>                                | <b>5 761</b>  | <b>2</b>                    | <b>143</b> |  |                               |   |                          | <b>66 967</b>  |
| Industry - Industrie - Industria  |                              |                            |  |                                 |                               |  |                                   | 6 363                                       | 5 761   | 2                           | 143        |  |                               |   |                          | <b>43 620</b>  |
| Transport - Transport - Transporte  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          | <b>304</b>     |
| Commerce - Commerce - Comercial   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          | <b>8 921</b>   |
| Residential - Résidentiel - Residencial   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          | <b>13 479</b>  |
| Other - Autres - Otros  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          | <b>642</b>     |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |                                 |                               |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                             |            |  |                               |   |                          |                |
| <b>Total - Total - Total</b>  | <b>11 363</b>                | <b>7 383</b>               | <b>26 065</b>  | <b>3 352</b>                    |                               |  |                                   | <b>12 257</b>                               | <b>6 348</b>  | <b>2</b>                    | <b>196</b> |  |                               |   |                          | <b>66 967</b>  |
| Electricity - Électricité - Electrica   | 11 363                       | 7 383                      | 26 065   | 3 352                           |                               |  |                                   | 5 894                                       | 588   |                             | 53         |  |                               |   |                          | <b>51 346</b>  |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |                               |  |                                   | 6 363                                       | 5 761   | 2                           | 143        |  |                               |   |                          | <b>15 622</b>  |
| Direct use - Utilisation directe - Uso directo  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |                |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |                                 |                               |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                             |            |  |                               |   |                          |                |
| Electricity - Électricité - Electrica (in/en GWh)   | 3 475                        | 2 258                      | 7 970  |                                 |                               |  |                                   | 1 802                                       | 180   |                             | 16         |  |                               |   |                          | <b>15 700</b>  |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |                |

## Colombia

## Colombia

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Édica | Solar - Solaire - Solar                        |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                                 |                             | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total          |          |
|---|------------------------------|---------------------------|--|---------------------------------|--|-----------------------------------|---|---|---------------------------------|-----------------------------|--|-------------------------------|---|--------------------------|----------------|----------|
|   |                              |                           | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Solídos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás |  |                               |   |                          |                |          |
| <b>Primary energy - Énergie primaire - Energía primaria</b>   |                              |                           |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |                |          |
| Production - Production - Generación  | 224 133                      | 267                       | 2 287  |                                 |  |                                   | 764   | 164 007   | 32 630                          | 17                          |  |                               |   |                          | 424 105        |          |
| Imports - Importations - Importaciones  |                              |                           |  |                                 |  |                                   |   |   | 690                             |                             |  |                               |   |                          | 1 133          |          |
| Exports - Exportations - Exportaciones  |                              |                           |  |                                 |  |                                   |   |   |                                 | 191                         |  |                               |   |                          | - 1 709        |          |
| Stock - Stocks - Inventario (+/-)   |                              |                           |  |                                 |  |                                   | 764   | 164 007   | 33 510                          | 17                          |  |                               |   |                          | 191            |          |
| <b>Supply - Approvisionnement - Offre</b>   | <b>224 133</b>               | <b>267</b>                | <b>2 287</b>                                   |                                 |  |                                   |   | <b>17 983</b>   | <b>841</b>                      |                             |  |                               |   |                          | <b>423 720</b> |          |
| <i>Differences - écarts - Diferencias</i>   |                              |                           |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          | <b>20 070</b>  |          |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                           |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |                |          |
| Electricity - Électricité - Electrica   | - 224 133                    | - 267                     | - 2 287  |                                 |  |                                   |   |   |                                 |                             | - 20 935   |                               |   |                          |                | 39       |
| CHP - Cogénération - Cogeneración   |                              |                           |  |                                 |  |                                   |   |   |                                 |                             | - 835  |                               |   |                          |                | - 14 655 |
| Heat - Chaleur - Calor  |                              |                           |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |                | - 363    |
| Charcoal - Charbon - Carbón   |                              |                           |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |                |          |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                           |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |                |          |
| Other - Autres - Otras  |                              |                           |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |                |          |
| Own use - Consomm. propre - Uso propio  |                              |                           |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |                |          |
| Distribution - Distribution - Distribución  |                              |                           |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |                |          |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                           |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |                |          |
| <b>Total - Total - Total</b>  |                              |                           |  |                                 |  |                                   | 764   | <b>160 220</b>  | <b>34 351</b>                   |                             |  |                               |   |                          | <b>398 342</b> |          |
| Industry - Industrie - Industria  |                              |                           |  |                                 |  |                                   | 764   | 35 156  | 34 351                          |                             |  |                               |   |                          | <b>83 221</b>  |          |
| Transport - Transport - Transporte  |                              |                           |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          | <b>35 833</b>  |          |
| Commerce - Commerce - Comercial   |                              |                           |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |                |          |
| Residential - Résidentiel - Residencial   |                              |                           |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |                |          |
| Other - Autres - Otros  |                              |                           |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |                |          |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                           |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |                |          |
| <b>Total - Total - Total</b>  | <b>195 235</b>               | <b>233</b>                | <b>1 992</b>                                   |                                 |  |                                   | 764   | <b>165 737</b>  | <b>34 351</b>                   | <b>3</b>                    | <b>16</b>  | <b>10</b>                     | <b>202 980</b>                          |                          | <b>398 342</b> |          |
| Electricity - Électricité - Electrica   | 195 235                      | 233                       | 1 992  |                                 |  |                                   | 764   | 5 517   | 34 351                          | 3                           | 16   | 10                            |   |                          | <b>202 980</b> |          |
| Heat - Chaleur - Calor  |                              |                           |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |                |          |
| Direct use - Utilisation directe - Uso directo  |                              |                           |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          | <b>195 361</b> |          |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                           |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |                |          |
| Electricity - Électricité - Electrica (in/en GWh)   | 62 259                       | 74                        | 635  |                                 |  |                                   |   |   |                                 | 1 759                       |  | 1                             |   |                          | 64 729         |          |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                           |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |                |          |

| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Édica | Solar - Solaire - Solar                        |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                                 |                             | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total          |          |
|---|------------------------------|---------------------------|--|---------------------------------|--|-----------------------------------|---|---|---------------------------------|-----------------------------|--|-------------------------------|---|--------------------------|----------------|----------|
|   |                              |                           | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Solídos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás |  |                               |   |                          |                |          |
| <b>Primary energy - Énergie primaire - Energía primaria</b>   |                              |                           |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |                |          |
| Production - Production - Generación  | 224 413                      | 218                       | 1 283  |                                 |  |                                   | 764   | 162 979   | 32 659                          | 20                          |  |                               |   |                          | 422 335        |          |
| Imports - Importations - Importaciones  |                              |                           |  |                                 |  |                                   |   |   |                                 |                             | - 360  |                               |   |                          | 1 281          |          |
| Exports - Exportations - Exportaciones  |                              |                           |  |                                 |  |                                   | 764   | 162 979   | 32 299                          | 20                          |  |                               |   |                          | - 1 405        |          |
| Stock - Stocks - Inventario (+/-)   |                              |                           |  |                                 |  |                                   |   | 25 133  |                                 | 1                           |  |                               |   |                          | - 360          |          |
| <b>Supply - Approvisionnement - Offre</b>   | <b>224 413</b>               | <b>218</b>                | <b>1 283</b>                                   |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          | <b>421 851</b> |          |
| <i>Differences - écarts - Diferencias</i>   |                              |                           |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          | <b>25 134</b>  |          |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                           |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |                |          |
| Electricity - Électricité - Electrica   | - 224 413                    | - 218                     | - 1 283  |                                 |  |                                   |   |   |                                 |                             | - 23 157   |                               |   |                          |                | 38       |
| CHP - Cogénération - Cogeneración   |                              |                           |  |                                 |  |                                   |   |   |                                 |                             | - 799  |                               |   |                          |                | - 16 585 |
| Heat - Chaleur - Calor  |                              |                           |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |                | - 357    |
| Charcoal - Charbon - Carbón   |                              |                           |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |                |          |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                           |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |                |          |
| Other - Autres - Otras  |                              |                           |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |                |          |
| Own use - Consomm. propre - Uso propio  |                              |                           |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |                |          |
| Distribution - Distribution - Distribución  |                              |                           |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |                |          |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                           |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |                |          |
| <b>Total - Total - Total</b>  |                              |                           |  |                                 |  |                                   | 764   | <b>164 156</b>  | <b>32 300</b>                   |                             |  |                               |   |                          | <b>374 908</b> |          |
| Industry - Industrie - Industria  |                              |                           |  |                                 |  |                                   | 764   | 50 375  | 32 300                          |                             |  |                               |   |                          | <b>103 577</b> |          |
| Transport - Transport - Transporte  |                              |                           |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          | <b>32 538</b>  |          |
| Commerce - Commerce - Comercial   |                              |                           |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          | <b>43 724</b>  |          |
| Residential - Résidentiel - Residencial   |                              |                           |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          | <b>156 816</b> |          |
| Other - Autres - Otros  |                              |                           |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          | <b>38 253</b>  |          |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                           |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |                |          |
| <b>Total - Total - Total</b>  | <b>171 467</b>               | <b>166</b>                | <b>980</b>                                     |                                 |  |                                   | 764   | <b>169 218</b>  | <b>32 300</b>                   | <b>4</b>                    | <b>10</b>  | <b>10</b>                     | <b>177 678</b>                          |                          | <b>374 908</b> |          |
| Electricity - Électricité - Electrica   | 171 467                      | 166                       | 980  |                                 |  |                                   | 764   | 5 062   | 32 300                          | 4                           |  |                               |   |                          | <b>177 678</b> |          |
| Heat - Chaleur - Calor  |                              |                           |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |                |          |
| Direct use - Utilisation directe - Uso directo  |                              |                           |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          | <b>197 230</b> |          |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                           |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |                |          |
| Electricity - Électricité - Electrica (in/en GWh)   | 62 337                       | 60                        | 356  |                                 |  |                                   |   |   |                                 | 1 840                       |  | 1                             |   |                          | 64 595         |          |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                           |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |                |          |

## Comoros

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Eoliennes<br>Eólica | Solar - Solaire - Solar                               |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios   |                             |  | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total   |
|---|------------------------------|-----------------------------|---|---------------------------------|-------------------------------|--|-----------------------------------|---|---|-----------------------------|--|--|-------------------------------|---|--------------------------|---------|
|   |                              |                             | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás |  |  |                               |   |                          |         |
|   |                              |                             | Primary energy - Énergie primaire - Energía primaaria |                                 |                               |  |                                   |   | Primary energy - Énergie primaire - Energía primaaria   |                             |  |  |                               |   |                          |         |
| Production - Production - Generación  |                              |                             | 0   |                                 |                               |  |                                   |   | 3 968   |                             |  |  |                               |   |                          | 3 968   |
| Imports - Importations - Importaciones  |                              |                             | 0   |                                 |                               |  |                                   |   | 3 968   |                             |  |  |                               |   |                          | 3 968   |
| Exports - Exportations - Exportaciones  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |         |
| Stock - Stocks - Inventario (+/-)   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |         |
| <b>Supply - Approvisionnement - Oferta</b>  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |         |
| Differences - Ecarts - Diferencias  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |         |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                             |   |                                 |                               |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                             |  |  |                               |   |                          |         |
| Electricity - Électricité - Electrica   |                              |                             | - 0   |                                 |                               |  |                                   |   | - 3 623   |                             |  |  |                               |   | 0                        | - 1983  |
| CHP - Cogénération - Cogeneración   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |         |
| Heat - Chaleur - Calor  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |         |
| Charcoal - Charbon - Carbón   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |         |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |         |
| Other - Autres - Otras  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |         |
| Own use - Consomm. propre - Uso propio  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |         |
| Distribution - Distribution - Distribución  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |         |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                             |   |                                 |                               |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                             |  |  |                               |   |                          |         |
| <b>Total - Total - Total</b>  |                              |                             |   |                                 |                               |  |                                   |   | 344   |                             |  |  |                               |   | 1985                     |         |
| Industry - Industrie - Industria  |                              |                             |   |                                 |                               |  |                                   |   | 25  |                             |  |  |                               |   |                          | 25      |
| Transport - Transport - Transporte  |                              |                             |   |                                 |                               |  |                                   |   | 320   |                             |  |  |                               |   |                          | 1960    |
| Commerce - Commerce - Comercial   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          | 0       |
| Residential - Résidentiel - Residencial   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |         |
| Other - Autres - Otros  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |         |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                             |   |                                 |                               |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                             |  |  |                               |   |                          |         |
| <b>Total - Total - Total</b>  |                              |                             | 0   |                                 |                               |  |                                   |   | 344   |                             |  |  |                               |   | 1985                     |         |
| Electricity - Électricité - Electrica   |                              |                             | 0   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          | 0       |
| Heat - Chaleur - Calor  |                              |                             |   |                                 |                               |  |                                   |   | 344   |                             |  |  |                               |   |                          | 1984    |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                             |   |                                 |                               |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                             |  |  |                               |   |                          |         |
| Electricity - Électricité - Electrica (in/en GWh)   |                              |                             | 0   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          | 0       |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |         |
| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Eoliennes<br>Eólica | Solar - Solaire - Solar                               |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios   |                             |  | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total   |
|   |                              |                             | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás |  |  |                               |   |                          |         |
|   |                              |                             | Primary energy - Énergie primaire - Energía primaaria |                                 |                               |  |                                   |   | Primary energy - Énergie primaire - Energía primaaria   |                             |  |  |                               |   |                          |         |
| Production - Production - Generación  |                              |                             | 2   |                                 |                               |  |                                   |   | 3 885   |                             |  |  |                               |   |                          | 3 887   |
| Imports - Importations - Importaciones  |                              |                             | 2   |                                 |                               |  |                                   |   | 3 885   |                             |  |  |                               |   |                          | 3 887   |
| Exports - Exportations - Exportaciones  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          | 0       |
| Stock - Stocks - Inventario (+/-)   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |         |
| <b>Supply - Approvisionnement - Oferta</b>  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |         |
| Differences - Ecarts - Diferencias  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |         |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                             |   |                                 |                               |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                             |  |  |                               |   |                          |         |
| Electricity - Électricité - Electrica   |                              |                             | - 2   |                                 |                               |  |                                   |   | - 3 543   |                             |  |  |                               |   | 2                        | - 1 939 |
| CHP - Cogénération - Cogeneración   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |         |
| Heat - Chaleur - Calor  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |         |
| Charcoal - Charbon - Carbón   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |         |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |         |
| Other - Autres - Otras  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |         |
| Own use - Consomm. propre - Uso propio  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |         |
| Distribution - Distribution - Distribución  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |         |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                             |   |                                 |                               |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                             |  |  |                               |   |                          |         |
| <b>Total - Total - Total</b>  |                              |                             |   |                                 |                               |  |                                   |   | 342   |                             |  |  |                               |   | 1948                     |         |
| Industry - Industrie - Industria  |                              |                             |   |                                 |                               |  |                                   |   | 23  |                             |  |  |                               |   |                          | 23      |
| Transport - Transport - Transporte  |                              |                             |   |                                 |                               |  |                                   |   | 319   |                             |  |  |                               |   |                          | 1 924   |
| Commerce - Commerce - Comercial   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          | 1       |
| Residential - Résidentiel - Residencial   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |         |
| Other - Autres - Otros  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |         |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                             |   |                                 |                               |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                             |  |  |                               |   |                          |         |
| <b>Total - Total - Total</b>  |                              |                             | 2   |                                 |                               |  |                                   |   | 342   |                             |  |  |                               |   | 1948                     |         |
| Electricity - Électricité - Electrica   |                              |                             | 2   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          | 2       |
| Heat - Chaleur - Calor  |                              |                             |   |                                 |                               |  |                                   |   | 342   |                             |  |  |                               |   |                          | 1 946   |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                             |   |                                 |                               |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                             |  |  |                               |   |                          |         |
| Electricity - Électricité - Electrica (in/en GWh)   |                              |                             | 1   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          | 1       |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |         |

Congo

Congo

| 2022 (in/en TJ)                                   | Hydro/Marine<br>Hydro/Marina | Wind<br>Eoliennes<br>Éolica | Solar - Solaire - Solar   |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                             |  | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total         |
|---|------------------------------|-----------------------------|---|---------------------------------|-------------------------------|--|-----------------------------------|---|---|-----------------------------|--|--|-------------------------------|---|--------------------------|---------------|
|   |                              |                             | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica  | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás |  |  |                               |   |                          |               |
|   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |
|   |                              |                             | <b>Primary energy - Énergie primaire - Energía primaaria</b>  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |
| Production - Production - Generación              | 3 766                        |                             |   | 3                               |                               |  |                                   |   |   | 19 894                      |  |  |                               |   | 37                       | 23 663        |
| Imports - Importations - Importaciones            |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          | 37            |
| Exports - Exportations - Exportaciones            |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |
| Stock - Stocks - Inventario (+/-)                 |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |
| <b>Supply - Approvisionnement - Oferta</b>        | <b>3 766</b>                 |                             |   | <b>3</b>                        |                               |  |                                   |   |   | <b>19 894</b>               |  |  |                               |   | <b>37</b>                | <b>23 700</b> |
| Differences - Ecarts - Diferencias                |                              |                             |   |                                 |                               |  |                                   |   |   | -1 612                      |  |  |                               |   | - 1                      | - 1613        |
|   |                              |                             | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |
| Electricity - Électricité - Electrica             | - 3 766                      |                             |   | - 3                             |                               |  |                                   |   |   | - 178                       |  |  |                               |   | 3 883                    | - 63          |
| CHP - Cogénération - Cogeneración                 |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |
| Heat - Chaleur - Calor                            |                              |                             |   |                                 |                               |  |                                   |   |   | - 414                       |  |  |                               |   |                          | - 227         |
| Charcoal - Charbon - Carbón                       |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |
| Pellets/briq. - Granules/briq. - Pellets/briq.    |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |
| Other - Autres - Otras                            |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |
| Own use - Consomm. propre - Uso propio            |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |
| Distribution - Distribution - Distribución        |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   | - 1 880                  | - 1 880       |
|   |                              |                             | <b>Final consumption - Consommation finale - Consumo final</b>  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |
| <b>Total - Total - Total</b>                      |                              |                             |   |                                 |                               |  |                                   |   |   | 17 690                      |  |  |                               |   | 187                      | 2 039         |
| Industry - Industrie - Industria                  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   | 122                      | 19 916        |
| Transport - Transport - Transporte                |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |
| Commerce - Commerce - Comercial                   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          | 958           |
| Residential - Résidentiel - Residencial           |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          | 18 837        |
| Other - Autres - Otros                            |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |
|   |                              |                             | <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |
| <b>Total - Total - Total</b>                      | <b>1977</b>                  |                             |   | <b>2</b>                        |                               |  |                                   |   |   | <b>17 750</b>               |  |  |                               |   | <b>187</b>               | <b>2 039</b>  |
| Electricity - Électricité - Electrica             | 1977                         |                             |   | 2                               |                               |  |                                   |   |   | 60                          |  |  |                               |   |                          | 2 039         |
| Heat - Chaleur - Calor                            |                              |                             |   |                                 |                               |  |                                   |   |   | 17 690                      |  |  |                               |   | 187                      | 17 678        |
|   |                              |                             | <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |
| Electricity - Électricité - Electrica (in/en GWh) | 1 046                        |                             |   | 1                               |                               |  |                                   |   |   | 32                          |  |  |                               |   |                          | 1 079         |
| Heat - Chaleur - Calor (in/en TJ)                 |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |
| 2021 (in/en TJ)                                   | Hydro/Marine<br>Hydro/Marina | Wind<br>Eoliennes<br>Éolica | Solar - Solaire - Solar   |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                             |  | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total         |
|   |                              |                             | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica  | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás |  |  |                               |   |                          |               |
|   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |
|   |                              |                             | <b>Primary energy - Énergie primaire - Energía primaaria</b>  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |
| Production - Production - Generación              | 3 766                        |                             |   | 3                               |                               |  |                                   |   |   | 19 633                      |  |  |                               |   | 37                       | 23 402        |
| Imports - Importations - Importaciones            |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          | 37            |
| Exports - Exportations - Exportaciones            |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |
| Stock - Stocks - Inventario (+/-)                 |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |
| <b>Supply - Approvisionnement - Oferta</b>        | <b>3 766</b>                 |                             |   | <b>3</b>                        |                               |  |                                   |   |   | <b>19 633</b>               |  |  |                               |   | <b>37</b>                | <b>23 439</b> |
| Differences - Ecarts - Diferencias                |                              |                             |   |                                 |                               |  |                                   |   |   | -1 612                      |  |  |                               |   | - 1                      | - 1613        |
|   |                              |                             | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                                 |                               |  |                                   |   |   | - 178                       |  |  |                               |   | 3 883                    | - 63          |
| Electricity - Électricité - Electrica             | - 3 766                      |                             |   | - 3                             |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |
| CHP - Cogénération - Cogeneración                 |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |
| Heat - Chaleur - Calor                            |                              |                             |   |                                 |                               |  |                                   |   |   | - 400                       |  |  |                               |   | 181                      | - 219         |
| Charcoal - Charbon - Carbón                       |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |
| Pellets/briq. - Granules/briq. - Pellets/briq.    |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |
| Other - Autres - Otras                            |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |
| Own use - Consomm. propre - Uso propio            |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   | - 1 880                  | - 1 880       |
| Distribution - Distribution - Distribución        |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |
|   |                              |                             | <b>Final consumption - Consommation finale - Consumo final</b>  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |
| <b>Total - Total - Total</b>                      |                              |                             |   |                                 |                               |  |                                   |   |   | <b>17 443</b>               |  |  |                               |   | <b>181</b>               | <b>2 039</b>  |
| Industry - Industrie - Industria                  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   | 121                      | 19 663        |
| Transport - Transport - Transporte                |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |
| Commerce - Commerce - Comercial                   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          | 947           |
| Residential - Résidentiel - Residencial           |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          | 18 595        |
| Other - Autres - Otros                            |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |
|   |                              |                             | <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |
| <b>Total - Total - Total</b>                      | <b>1977</b>                  |                             |   | <b>2</b>                        |                               |  |                                   |   |   | <b>17 503</b>               |  |  |                               |   | <b>181</b>               | <b>2 039</b>  |
| Electricity - Électricité - Electrica             | 1977                         |                             |   | 2                               |                               |  |                                   |   |   | 60                          |  |  |                               |   |                          | 2 039         |
| Heat - Chaleur - Calor                            |                              |                             |   |                                 |                               |  |                                   |   |   | 17 443                      |  |  |                               |   | 181                      | 17 624        |
|   |                              |                             | <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |
| Electricity - Électricité - Electrica (in/en GWh) | 1 046                        |                             |   | 1                               |                               |  |                                   |   |   | 32                          |  |  |                               |   |                          | 1 079         |
| Heat - Chaleur - Calor (in/en TJ)                 |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |

## Croatia

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                              |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios   |                              |                  | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total                         |                               |
|---|------------------------------|----------------------------|--|---------------------------------|-------------------------------|--|-----------------------------------|---|---|------------------------------|------------------|--|-------------------------------|---|--------------------------|-------------------------------|-------------------------------|
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica       | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Liquidos   | Bioegas - Biogaz<br>- Biogás |                  |  |                               |   |                          |                               |                               |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaria |                                 |                               |  |                                   |   | Primary energy - Énergie primaire - Energía primaria  |                              |                  |  |                               |   |                          |                               |                               |
| Production - Production - Generación  | 19 655                       | 7 696                      | 547  | 672                             | 1 726                         | 591                                      |                                   |   | 66 683<br>956<br>- 3 841  | 15<br>543                    | 3 799            | 572<br>- 6 550<br>- 173                          | 257<br>- 302<br>13            | 27 010<br>- 16 371                      |                          | 101 385<br>29 338<br>- 27 065 |                               |
| Imports - Importations - Importaciones  |                              |                            |  |                                 |                               |  |                                   |   | 63 798<br>0   | 887                          | 3 799            | - 6 152  | - 32                          | 10 638                                  | 0                        | 168<br>103 826<br>0           |                               |
| Exports - Exportations - Exportaciones  |                              |                            |  |                                 |                               |  |                                   |   |   |                              |                  |  |                               |   |                          | - 27 065                      |                               |
| Stock - Stocks - Inventario (+/-)   |                              |                            |  |                                 |                               |  |                                   |   |   |                              |                  |  |                               |   |                          | 168                           |                               |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>19 655</b>                | <b>7 696</b>               | <b>547</b>   | <b>672</b>                      | <b>1 726</b>                  | <b>591</b>                               |                                   |   |   |                              |                  |  |                               |   |                          | <b>103 826</b>                |                               |
| Differences - Ecarts - Diferencias  |                              |                            |  |                                 |                               |  |                                   |   |   |                              |                  |  |                               |   |                          | 0                             |                               |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |                                 |                               |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                              |                  |  |                               |   |                          |                               |                               |
| Electricity - Électricité - Electrica   | - 19 655                     | - 7 696                    | - 547  |                                 | - 1 528                       |  |                                   |   | - 13 289  |                              | - 336<br>- 3 395 | - 17   | 321                           | 28 293<br>3 930                         | 4 415<br>14              | - 1 469<br>- 8 338            |                               |
| CHP - Cogénération - Cogeneración   |                              |                            |  |                                 |                               |  |                                   |   |   |                              |                  |  |                               |   |                          | - 3                           |                               |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |                               |  |                                   |   |   |                              |                  |  |                               |   |                          | - 482                         |                               |
| Charcoal - Charbon - Carbón   |                              |                            |  |                                 |                               |  |                                   |   |   |                              |                  |  |                               |   |                          | 0                             |                               |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |  |                                 |                               |  |                                   |   |   |                              |                  |  |                               |   |                          |                               |                               |
| Other - Autres - Otras  |                              |                            |  |                                 |                               |  |                                   |   |   |                              |                  |  |                               |   |                          |                               |                               |
| Own use - Consomm. propre - Uso propio  |                              |                            |  |                                 |                               |  |                                   |   |   |                              |                  |  |                               |   |                          |                               |                               |
| Distribution - Distribution - Distribución  |                              |                            |  |                                 |                               |  |                                   |   |   |                              |                  |  |                               |   |                          |                               |                               |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |                                 |                               |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                  |  |                               |   |                          |                               |                               |
| Total - Total - Total   |                              |                            |  | 672                             | 198                           | 591                                      |                                   |   | 43 723<br>1 181<br>879  | 887<br>7<br>879              | 24               | - 186  | 290                           | 36 810<br>7 756<br>654                  | 3 194<br>1 061           | 86 203<br>10 006              |                               |
| Industry - Industrie - Industria  |                              |                            |  |                                 |                               |  |                                   |   |   |                              |                  |  |                               |   |                          | 1 533                         |                               |
| Transport - Transport - Transporte  |                              |                            |  | 202                             | 108                           | 591                                      |                                   |   |   |                              | 24               | - 42   | 35                            | 13 415<br>255                           | 615                      | 14 938                        |                               |
| Commerce - Commerce - Comercial   |                              |                            |  | 471                             |                               |  |                                   |   |   |                              |                  |  |                               |   |                          | 59 201                        |                               |
| Residential - Résidentiel - Residencial   |                              |                            |  |                                 | 90                            |  |                                   |   |   |                              |                  |  |                               |   |                          | 524                           |                               |
| Other - Autres - Otros  |                              |                            |  |                                 |                               |  |                                   |   |   |                              |                  |  |                               |   |                          |                               |                               |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |                                 |                               |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                              |                  |  |                               |   |                          |                               |                               |
| Total - Total - Total   | 22 453                       | 8 792                      | 625  | 672                             | 497                           | 591                                      |                                   |   | 49 427  | 887                          | 2 146            | - 176  | 290                           |   |                          | 86 203                        |                               |
| Electricity - Électricité - Electrica   | 22 453                       | 8 792                      | 625  |                                 | 299                           |  |                                   |   |   | 2 959                        | 1 683            |  |                               |   |                          | 36 810                        |                               |
| Heat - Chaleur - Calor  |                              |                            |  | 672                             | 198                           | 591                                      |                                   |   |   | 2 745                        | 438              | 10   |                               |   |                          | 3 194                         |                               |
| Direct use - Utilisation directe - Uso directo  |                              |                            |  |                                 |                               |  |                                   |   |   | 43 723                       | 887              | 24   | - 186                         | 290                                     |                          | 46 199                        |                               |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |                                 |                               |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                              |                  |  |                               |   |                          |                               |                               |
| Electricity - Électricité - Electrica (in/en GWh)   | 5 460                        | 2 138                      | 152  |                                 | 73                            |  |                                   |   | 720   |                              | 409              |  |                               |   |                          | 8 951                         |                               |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |  |                                 |                               |  |                                   |   | 3 795   |                              | 606              | 14   |                               |   |                          | 4 415                         |                               |
| 2021 (In/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                              |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios   |                              |                  | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total                         |                               |
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica       | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Liquidos   | Bioegas - Biogaz<br>- Biogás |                  |  |                               |   |                          |                               |                               |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaria |                                 |                               |  |                                   |   | Primary energy - Énergie primaire - Energía primaria  |                              |                  |  |                               |   |                          |                               |                               |
| Production - Production - Generación  | 25 660                       | 7 422                      | 536  | 715                             | 2 093                         | 668                                      |                                   |   | 69 882<br>1 441<br>- 5 573  | 14                           | 4 068            | 4 154  | 571<br>- 6 540<br>78          | 408<br>- 485<br>24                      | 28 667<br>- 18 797       |                               | 111 145<br>35 154<br>- 31 394 |
| Imports - Importations - Importaciones  |                              |                            |  |                                 |                               |  |                                   |   |   | 314                          | - 264            |  |                               |   |                          | 152                           |                               |
| Exports - Exportations - Exportaciones  |                              |                            |  |                                 |                               |  |                                   |   |   | 3 818                        | 4 154            | - 5 891  | - 54                          | 9 870                                   |                          | 115 056                       |                               |
| Stock - Stocks - Inventario (+/-)   |                              |                            |  |                                 |                               |  |                                   |   |   |                              |                  |  |                               |   |                          | 0                             |                               |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>25 660</b>                | <b>7 422</b>               | <b>536</b>   | <b>715</b>                      | <b>2 093</b>                  | <b>668</b>                               |                                   |   |   |                              |                  |  |                               |   |                          | <b>115 056</b>                |                               |
| Differences - Ecarts - Diferencias  |                              |                            |  |                                 |                               |  |                                   |   |   |                              |                  |  |                               |   |                          |                               |                               |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |                                 |                               |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                              |                  |  |                               |   |                          |                               |                               |
| Electricity - Électricité - Electrica   | - 25 660                     | - 7 422                    | - 536  |                                 | - 1 885                       |  |                                   |   | - 11 188  |                              | - 363<br>- 3 731 | - 23   | 398                           | 34 082<br>3 819                         | 4 706<br>20              | - 1 785<br>- 6 394            |                               |
| CHP - Cogénération - Cogeneración   |                              |                            |  |                                 |                               |  |                                   |   |   |                              |                  |  |                               |   |                          | - 3                           |                               |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |                               |  |                                   |   |   |                              |                  |  |                               |   |                          | - 598                         |                               |
| Charcoal - Charbon - Carbón   |                              |                            |  |                                 |                               |  |                                   |   |   |                              |                  |  |                               |   |                          | 0                             |                               |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |  |                                 |                               |  |                                   |   |   |                              |                  |  |                               |   |                          |                               |                               |
| Other - Autres - Otras  |                              |                            |  |                                 |                               |  |                                   |   |   |                              |                  |  |                               |   |                          |                               |                               |
| Own use - Consomm. propre - Uso propio  |                              |                            |  |                                 |                               |  |                                   |   |   |                              |                  |  |                               |   |                          |                               |                               |
| Distribution - Distribution - Distribución  |                              |                            |  |                                 |                               |  |                                   |   |   |                              |                  |  |                               |   |                          |                               |                               |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |                                 |                               |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                  |  |                               |   |                          |                               |                               |
| Total - Total - Total   |                              |                            |  | 715                             | 208                           | 668                                      |                                   |   | 47 907<br>1 320   | 3 818                        | 19               | 60   | 345                           | 41 102<br>709                           | 3 476<br>964             | 98 319<br>11 719              |                               |
| Industry - Industrie - Industria  |                              |                            |  |                                 | 214                           | 138                                      | 668                               |   |   | 3 818                        | 19               | 6  | 41                            | 14 157<br>303                           | 867<br>1563              | 4 527<br>15 952               |                               |
| Transport - Transport - Transporte  |                              |                            |  | 500                             |                               |  |                                   |   |   |                              |                  |  |                               |   |                          | 65 599                        |                               |
| Commerce - Commerce - Comercial   |                              |                            |  |                                 | 70                            |  |                                   |   |   |                              |                  |  |                               |   |                          | 522                           |                               |
| Residential - Résidentiel - Residencial   |                              |                            |  |                                 |                               |  |                                   |   |   |                              |                  |  |                               |   |                          |                               |                               |
| Other - Autres - Otros  |                              |                            |  |                                 |                               |  |                                   |   |   |                              |                  |  |                               |   |                          |                               |                               |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |                                 |                               |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                              |                  |  |                               |   |                          |                               |                               |
| Total - Total - Total   | 27 827                       | 8 050                      | 581  | 715                             | 558                           | 668                                      |                                   |   | 53 421  | 3 818                        | 2 261            | 75   | 345                           |   |                          | 98 319                        |                               |
| Electricity - Électricité - Electrica   | 27 827                       | 8 050                      | 581  |                                 | 350                           |  |                                   |   |   | 2 575<br>2 939               | 1 719<br>523     | 14   |                               |   |                          | 41 102                        |                               |
| Heat - Chaleur - Calor  |                              |                            |  | 715                             | 208                           | 668                                      |                                   |   | 47 907  | 3 818                        | 19               | 60   | 345                           |   |                          | 3 476                         |                               |
| Direct use - Utilisation directe - Uso directo  |                              |                            |  |                                 |                               |  |                                   |   |   |                              |                  |  |                               |   |                          | 53 740                        |                               |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |                                 |                               |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                              |                  |  |                               |   |                          |                               |                               |
| Electricity - Électricité - Electrica (in/en GWh)   | 7 128                        | 2 062                      | 149  |                                 | 90                            |  |                                   |   |   | 660                          | 440              |  |                               |   |                          | 10 528                        |                               |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |  |                                 |                               |  |                                   |   |   | 3 978                        | 708              | 20   |                               |   |                          | 4 706                         |                               |

## Cuba

## Cuba

| 22 (in/en)  | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                        |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios - Biocombustibles primarios |                                 |                             | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total   |
|---|------------------------------|----------------------------|--|---------------------------------|--|-----------------------------------|---|--|---------------------------------|-----------------------------|--|-------------------------------|---|--------------------------|---------|
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos  | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás |  |                               |   |                          |         |
| <b>Primary energy - Énergie primaire - Energía primaria</b>   |                              |                            |  |                                 |  |                                   |   |  |                                 |                             |  |                               |   |                          |         |
| Production  | 445                          | 230                        | 760  | 180                             |  |                                   |   | 29 753   |                                 | 96                          |  |                               |   |                          | 31 463  |
| Imports - Importations - Importaciones  |                              |                            |  |                                 |  |                                   |   | 2 681  |                                 |                             |  |                               |   |                          | 2 681   |
| Exports - Exportations - Exportaciones  |                              |                            |  |                                 |  |                                   |   | <b>32 434</b>  |                                 | <b>96</b>                   |  |                               |   |                          | 34 144  |
| Stock - Stockage - Almacenamiento   |                              |                            |  |                                 |  |                                   |   | <b>3 261</b>   |                                 | <b>2 083</b>                |  |                               |   |                          | 6 066   |
| <b>Supply - A</b>   | <b>445</b>                   | <b>230</b>                 | <b>760</b>                                     | <b>180</b>                      |  |                                   |   |  |                                 |                             |  |                               |   |                          |         |
| Differences   |                              |                            |  |                                 |  |                                   |   |  |                                 |                             |  |                               |   |                          |         |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |                                 |  |                                   |   |  |                                 |                             |  |                               |   |                          |         |
| Electricity - Électricité - Electricidad  | - 445                        | - 230                      | - 760  |                                 |  |                                   |   | - 17   |                                 | - 2 083                     |  |                               |   |                          | - 1 678 |
| CHP - Cogé  |                              |                            |  |                                 |  |                                   |   | - 3 313  |                                 |                             |  |                               |   |                          | - 2 319 |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |  |                                   |   | - 1 618  |                                 |                             |  |                               |   |                          | - 404   |
| Charcoal - Charbon - Carbón   |                              |                            |  |                                 |  |                                   |   |  |                                 |                             |  |                               |   |                          |         |
| Pellets/brid - Pellets/brid - Pellets/brid  |                              |                            |  |                                 |  |                                   |   |  |                                 |                             |  |                               |   |                          |         |
| Other - Autre - Otro  |                              |                            |  |                                 |  |                                   |   |  |                                 |                             |  |                               |   |                          |         |
| Own use - Utilisation propre - Uso propio   |                              |                            |  |                                 |  |                                   |   |  |                                 |                             |  |                               |   |                          |         |
| Distribution  |                              |                            |  |                                 |  |                                   |   |  |                                 |                             |  |                               |   |                          | - 283   |
|   |                              |                            |  |                                 |  |                                   |   |  |                                 |                             |  |                               |   |                          | - 609   |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |                                 |  |                                   |   |  |                                 |                             |  |                               |   |                          |         |
| Total - Total   |                              |                            |  | 180                             |  |                                   |   | <b>28 017</b>  |                                 | <b>96</b>                   |  |                               |   |                          | 32 133  |
| Industry - Industrie - Industria  |                              |                            |  |                                 |  |                                   |   | 25 709   |                                 |                             |  |                               |   |                          | 26 829  |
| Transport - Transport - Transporte  |                              |                            |  |                                 |  |                                   |   |  |                                 |                             |  |                               |   |                          | 93      |
| Commerce - Commerce - Comercio  |                              |                            |  | 1                               |  |                                   |   |  |                                 |                             |  |                               |   |                          | 2 722   |
| Residential - Résidentiel - Residencial   |                              |                            |  | 179                             |  |                                   |   |  |                                 |                             |  |                               |   |                          | 1 994   |
| Other - Autre - Otro  |                              |                            |  |                                 |  |                                   |   |  |                                 |                             |  |                               |   |                          | 495     |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |                                 |  |                                   |   |  |                                 |                             |  |                               |   |                          |         |
| Total - Total   | 410                          | 212                        | 700  | 180                             |  |                                   |   | <b>28 938</b>  |                                 | <b>480</b>                  |  |                               |   |                          | 32 133  |
| Electricity - Électricité - Electricidad  | 410                          | 212                        | 700  |                                 |  |                                   |   | 921  |                                 | 384                         |  |                               |   |                          | 2 627   |
| Heat - Chaleur - Calor  |                              |                            |  | 180                             |  |                                   |   |  |                                 | 96                          |  |                               |   |                          | 29 507  |
| Direct use  |                              |                            |  |                                 |  |                                   |   |  |                                 |                             |  |                               |   |                          |         |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |                                 |  |                                   |   |  |                                 |                             |  |                               |   |                          |         |
| Electricity - Électricité - Electricidad  | 124                          | 64                         | 211  |                                 |  |                                   |   | 278  |                                 | 116                         |  |                               |   |                          | 792     |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |  |                                   |   |  |                                 |                             |  |                               |   |                          |         |
| 21 (in/en)  | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                        |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios - Biocombustibles primarios |                                 |                             | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total   |
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos  | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás |  |                               |   |                          |         |
| <b>Primary energy - Énergie primaire - Energía primaria</b>   |                              |                            |  |                                 |  |                                   |   |  |                                 |                             |  |                               |   |                          |         |
| Production  | 443                          | 252                        | 785  | 159                             |  |                                   |   | 49 936   |                                 | 92                          |  |                               |   |                          | 51 667  |
| Imports - Importations - Importaciones  |                              |                            |  |                                 |  |                                   |   | 2 025  |                                 |                             |  |                               |   |                          | 262     |
| Exports - Exportations - Exportaciones  |                              |                            |  |                                 |  |                                   |   | <b>51 961</b>  |                                 | <b>92</b>                   |  |                               |   |                          | 2 025   |
| Stock - Stockage - Almacenamiento   |                              |                            |  |                                 |  |                                   |   | <b>5 121</b>   |                                 | <b>1 944</b>                |  |                               |   |                          | 53 953  |
| <b>Supply - A</b>   | <b>443</b>                   | <b>252</b>                 | <b>785</b>                                     | <b>159</b>                      |  |                                   |   |  |                                 |                             |  |                               |   |                          | 6 975   |
| Differences   |                              |                            |  |                                 |  |                                   |   |  |                                 |                             |  |                               |   |                          |         |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |                                 |  |                                   |   |  |                                 |                             |  |                               |   |                          |         |
| Electricity - Électricité - Electricidad  | - 443                        | - 252                      | - 785  |                                 |  |                                   |   | - 32   |                                 | - 1 944                     |  |                               |   |                          | - 1 582 |
| CHP - Cogé  |                              |                            |  |                                 |  |                                   |   | - 5 189  |                                 |                             |  |                               |   |                          | - 3 632 |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |  |                                   |   | - 2 430  |                                 |                             |  |                               |   |                          | - 606   |
| Charcoal - Charbon - Carbón   |                              |                            |  |                                 |  |                                   |   |  |                                 |                             |  |                               |   |                          |         |
| Pellets/brid - Pellets/brid - Pellets/brid  |                              |                            |  |                                 |  |                                   |   |  |                                 |                             |  |                               |   |                          |         |
| Other - Autre - Otro  |                              |                            |  |                                 |  |                                   |   |  |                                 |                             |  |                               |   |                          |         |
| Own use - Utilisation propre - Uso propio   |                              |                            |  |                                 |  |                                   |   |  |                                 |                             |  |                               |   |                          |         |
| Distribution  |                              |                            |  |                                 |  |                                   |   |  |                                 |                             |  |                               |   |                          |         |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |                                 |  |                                   |   |  |                                 |                             |  |                               |   |                          |         |
| Total - Total   |                              |                            |  | 159                             |  |                                   |   | <b>47 001</b>  |                                 | <b>92</b>                   |  |                               |   |                          | 51 609  |
| Industry - Industrie - Industria  |                              |                            |  |                                 |  |                                   |   | 44 874   |                                 |                             |  |                               |   |                          | 46 044  |
| Transport - Transport - Transporte  |                              |                            |  |                                 |  |                                   |   | 1 989  |                                 |                             |  |                               |   |                          | 50      |
| Commerce - Commerce - Comercio  |                              |                            |  | 7                               |  |                                   |   | 137  |                                 |                             |  |                               |   |                          | 2 838   |
| Residential - Résidentiel - Residencial   |                              |                            |  | 152                             |  |                                   |   |  |                                 |                             |  |                               |   |                          | 2 190   |
| Other - Autre - Otro  |                              |                            |  |                                 |  |                                   |   |  |                                 |                             |  |                               |   |                          | 487     |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |                                 |  |                                   |   |  |                                 |                             |  |                               |   |                          |         |
| Total - Total   | 339                          | 192                        | 600  | 159                             |  |                                   |   | <b>48 195</b>  |                                 | <b>389</b>                  |  |                               |   |                          | 51 609  |
| Electricity - Électricité - Electricidad  | 339                          | 192                        | 600  |                                 |  |                                   |   | 1195   |                                 | 297                         |  |                               |   |                          | 2 624   |
| Heat - Chaleur - Calor  |                              |                            |  | 159                             |  |                                   |   |  |                                 | 92                          |  |                               |   |                          | 48 986  |
| Direct use  |                              |                            |  |                                 |  |                                   |   |  |                                 |                             |  |                               |   |                          |         |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |                                 |  |                                   |   |  |                                 |                             |  |                               |   |                          |         |
| Electricity - Électricité - Electricidad  | 123                          | 70                         | 218  |                                 |  |                                   |   | 434  |                                 | 108                         |  |                               |   |                          | 953     |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |  |                                   |   |  |                                 |                             |  |                               |   |                          |         |

**Cyprus**

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                        |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                                 |                             | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Carbon<br>Carbon | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | <b>Total</b>  |  |  |  |  |  |  |  |
|---|------------------------------|----------------------------|--|---------------------------------|--|-----------------------------------|---|---|---------------------------------|-----------------------------|--|------------------------------|---|--------------------------|---------------|--|--|--|--|--|--|--|
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Liquidos | Biogas - Biogaz<br>- Biogás |  |                              |   |                          |               |  |  |  |  |  |  |  |
|   |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |               |  |  |  |  |  |  |  |
| <b>Primary energy - Énergie primaire - Energía primaria</b>   |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |               |  |  |  |  |  |  |  |
| Production - Production - Generación  |                              |                            | 807  | 2 167                           | 3 218                                    |                                   | 2 112                                       | 469   | 986                             | 521                         |  |                              |   |                          | 10 281        |  |  |  |  |  |  |  |
| Imports - Importations - Importaciones  |                              |                            |  |                                 |  |                                   |   | 1 090   | 157                             | 1 054                       |  |                              |   |                          | 2 718         |  |  |  |  |  |  |  |
| Exports - Exportations - Exportaciones  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          | - 175         |  |  |  |  |  |  |  |
| Stock - Stocks - Inventario (+/-)   |                              |                            |  |                                 |  |                                   |   | - 128   |                                 | - 47                        |  |                              |   |                          | 12 824        |  |  |  |  |  |  |  |
| <b>Supply - Approvisionnement - Oferta</b>  |                              |                            | <b>807</b>                                     | <b>2 167</b>                    | <b>3 218</b>                             |                                   | <b>2 112</b>                                | <b>1 431</b>  | <b>1 142</b>                    | <b>521</b>                  |  |                              |   |                          | <b>- 5</b>    |  |  |  |  |  |  |  |
| Differences - Ecarts - Diferencias  |                              |                            |  |                                 |  |                                   |   |   | 7                               | 0                           |  |                              |   |                          |               |  |  |  |  |  |  |  |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |               |  |  |  |  |  |  |  |
| Electricity - Électricité - Electrica   |                              |                            | - 807  | - 2 167                         |  |                                   |   |   |                                 |                             |  |                              |   |                          | - 0           |  |  |  |  |  |  |  |
| CHP - Cogénération - Cogeneración   |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          | - 70          |  |  |  |  |  |  |  |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          | - 81          |  |  |  |  |  |  |  |
| Charcoal - Charbon - Carbón   |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          | - 150         |  |  |  |  |  |  |  |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          | - 87          |  |  |  |  |  |  |  |
| Other - Autres - Otras  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |               |  |  |  |  |  |  |  |
| Own use - Consomm. propre - Uso propio  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |               |  |  |  |  |  |  |  |
| Distribution - Distribution - Distribución  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |               |  |  |  |  |  |  |  |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |               |  |  |  |  |  |  |  |
| <b>Total - Total - Total</b>  |                              |                            |  |                                 | <b>3 218</b>                             |                                   |   | <b>2 112</b>  | <b>1 431</b>                    | <b>1 007</b>                | <b>1 007</b>                                     | <b>203</b>                   |   | <b>40</b>                | <b>12 431</b> |  |  |  |  |  |  |  |
| Industry - Industrie - Industria  |                              |                            |  |                                 | 17                                       |                                   |   | 1431  | 195                             | 19                          | 65   |                              |   |                          | 2 078         |  |  |  |  |  |  |  |
| Transport - Transport - Transporte  |                              |                            |  |                                 |  |                                   |   |   |                                 | 974                         |  |                              |   |                          | 974           |  |  |  |  |  |  |  |
| Commerce - Commerce - Comercial   |                              |                            |  |                                 | 480                                      |                                   |   | 1578  | 534                             | 5                           | 27   |                              |   |                          | 3 823         |  |  |  |  |  |  |  |
| Residential - Résidentiel - Residencial   |                              |                            |  |                                 |  |                                   |   |   | 634                             |                             |  |                              |   |                          | 5 251         |  |  |  |  |  |  |  |
| Other - Autres - Otros  |                              |                            |  |                                 |  |                                   |   |   | 12                              | 8                           | 111  |                              |   |                          | 304           |  |  |  |  |  |  |  |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |               |  |  |  |  |  |  |  |
| <b>Total - Total - Total</b>  |                              |                            | <b>744</b>                                     | <b>1 997</b>                    | <b>3 218</b>                             |                                   |   | <b>2 112</b>  | <b>1 431</b>                    | <b>1 007</b>                | <b>1 007</b>                                     | <b>435</b>                   |   | <b>40</b>                | <b>12 431</b> |  |  |  |  |  |  |  |
| Electricity - Électricité - Electrica   |                              |                            | 744  | 1 997                           |  |                                   |   |   |                                 |                             | 192  |                              |   |                          | 2 934         |  |  |  |  |  |  |  |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |  |                                   |   |   |                                 | 40                          |  |                              |   |                          | 40            |  |  |  |  |  |  |  |
| Direct use - Utilisation directe - Uso directo  |                              |                            |  |                                 | 3 218                                    |                                   |   | 2 112   | 1 431                           | 1 007                       | 1 007  | 203                          |   |                          | 9 457         |  |  |  |  |  |  |  |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |               |  |  |  |  |  |  |  |
| Electricity - Électricité - Electrica (in/en GWh)   |                              |                            | 224  | 602                             |  |                                   |   |   |                                 |                             | 58   |                              |   |                          | 884           |  |  |  |  |  |  |  |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |  |                                 |  |                                   |   |   |                                 | 40                          |  |                              |   |                          | 40            |  |  |  |  |  |  |  |
| 2021 (In/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                        |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                                 |                             | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Carbon<br>Carbon | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | <b>Total</b>  |  |  |  |  |  |  |  |
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Liquidos | Biogas - Biogaz<br>- Biogás |  |                              |   |                          |               |  |  |  |  |  |  |  |
|   |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |               |  |  |  |  |  |  |  |
| <b>Primary energy - Énergie primaire - Energía primaria</b>   |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |               |  |  |  |  |  |  |  |
| Production - Production - Generación  |                              |                            | 887  | 1 686                           | 3 168                                    |                                   | 2 084                                       | 367   | 795                             | 559                         |  |                              |   |                          | 9 546         |  |  |  |  |  |  |  |
| Imports - Importations - Importaciones  |                              |                            |  |                                 |  |                                   |   | 1 258   | 166                             | 966                         |  |                              |   |                          | 2 781         |  |  |  |  |  |  |  |
| Exports - Exportations - Exportaciones  |                              |                            |  |                                 |  |                                   |   |   | 61                              | 65                          |  |                              |   |                          | 127           |  |  |  |  |  |  |  |
| Stock - Stocks - Inventario (+/-)   |                              |                            |  |                                 |  |                                   |   |   | 961                             | 1 031                       | 559  |                              |   |                          | 12 453        |  |  |  |  |  |  |  |
| <b>Supply - Approvisionnement - Oferta</b>  |                              |                            | <b>887</b>                                     | <b>1 686</b>                    | <b>3 168</b>                             |                                   | <b>2 084</b>                                | <b>1 686</b>  | <b>871</b>                      | <b>1 053</b>                | <b>224</b>                                       |                              |   |                          | <b>21</b>     |  |  |  |  |  |  |  |
| Differences - Ecarts - Diferencias  |                              |                            |  |                                 |  |                                   |   |   | 0                               | 21                          | - 0  |                              |   |                          |               |  |  |  |  |  |  |  |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |               |  |  |  |  |  |  |  |
| Electricity - Électricité - Electrica   |                              |                            | - 887  | - 1 686                         |  |                                   |   |   |                                 |                             |  |                              |   |                          | - 82          |  |  |  |  |  |  |  |
| CHP - Cogénération - Cogeneración   |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          | - 52          |  |  |  |  |  |  |  |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          | - 134         |  |  |  |  |  |  |  |
| Charcoal - Charbon - Carbón   |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          | - 122         |  |  |  |  |  |  |  |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |               |  |  |  |  |  |  |  |
| Other - Autres - Otras  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |               |  |  |  |  |  |  |  |
| Own use - Consomm. propre - Uso propio  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |               |  |  |  |  |  |  |  |
| Distribution - Distribution - Distribución  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |               |  |  |  |  |  |  |  |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |               |  |  |  |  |  |  |  |
| <b>Total - Total - Total</b>  |                              |                            |  |                                 | <b>3 168</b>                             |                                   |   | <b>2 084</b>  | <b>1 686</b>                    | <b>871</b>                  | <b>1 053</b>                                     | <b>224</b>                   |   | <b>37</b>                | <b>12 085</b> |  |  |  |  |  |  |  |
| Industry - Industrie - Industria  |                              |                            |  |                                 | 17                                       |                                   |   |   | 1 258                           | 19                          | 67   |                              |   |                          | 2 225         |  |  |  |  |  |  |  |
| Transport - Transport - Transporte  |                              |                            |  |                                 |  |                                   |   |   |                                 | 1 020                       |  |                              |   |                          | 1 020         |  |  |  |  |  |  |  |
| Commerce - Commerce - Comercial   |                              |                            |  |                                 | 473                                      |                                   |   | 1 509   | 575                             | 6                           | 24   |                              |   |                          | 3 415         |  |  |  |  |  |  |  |
| Residential - Résidentiel - Residencial   |                              |                            |  |                                 |  |                                   |   |   | 610                             | 172                         | 1106   |                              |   |                          | 5 111         |  |  |  |  |  |  |  |
| Other - Autres - Otros  |                              |                            |  |                                 |  |                                   |   |   | 1                               | 257                         | 990  |                              |   |                          | 313           |  |  |  |  |  |  |  |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |               |  |  |  |  |  |  |  |
| <b>Total - Total - Total</b>  |                              |                            | <b>806</b>                                     | <b>1 531</b>                    | <b>3 168</b>                             |                                   |   | <b>2 084</b>  | <b>1 686</b>                    | <b>871</b>                  | <b>1 053</b>                                     | <b>457</b>                   |   | <b>37</b>                | <b>12 085</b> |  |  |  |  |  |  |  |
| Electricity - Électricité - Electrica   |                              |                            | 806  | 1 531                           |  |                                   |   |   |                                 |                             | 196  |                              |   |                          | 2 533         |  |  |  |  |  |  |  |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |  |                                   |   |   |                                 | 37                          |  |                              |   |                          | 37            |  |  |  |  |  |  |  |
| Direct use - Utilisation directe - Uso directo  |                              |                            |  |                                 | 3 168                                    |                                   |   | 2 084   | 1 686                           | 871                         | 1 053  | 224                          |   |                          | 9 514         |  |  |  |  |  |  |  |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |               |  |  |  |  |  |  |  |
| Electricity - Électricité - Electrica (in/en GWh)   |                              |                            | 246  | 468                             |  |                                   |   |   |                                 |                             | 60   |                              |   |                          | 775           |  |  |  |  |  |  |  |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |  |                                 |  |                                   |   |   |                                 | 37                          |  |                              |   |                          | 37            |  |  |  |  |  |  |  |

## Czechia

| 2022 (In/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                               |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios   |                                 |   | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total          |
|---|------------------------------|----------------------------|---|---------------------------------|--|-----------------------------------|---|---|---------------------------------|---|--|-------------------------------|---|--------------------------|----------------|
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás                           |  |                               |   |                          |                |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaaria |                                 |  |                                   |   |   |                                 | Primary energy - Énergie primaire - Energía primaaria |  |                               |   |                          |                |
| Production - Production - Generación  | 7 536                        | 2 309                      | 9 455   | 838                             |  | 16 174                            | 3 985                                       | 156 025   | 11 198                          | 25 054  |  |                               | 7 641                                   | 7                        | 232 575        |
| Imports - Importations - Importaciones  |                              |                            |   |                                 |  |                                   |   | 5 575   | 10 669                          | 1 637   |  |                               | -13 821                                 | -4                       | 25 529         |
| Exports - Exportations - Exportaciones  |                              |                            |   |                                 |  |                                   |   | -14 568   | -7 720                          |   |  |                               |   |                          | -36 113        |
| Stock - Stocks - Inventario (+/-)   |                              |                            |   |                                 |  |                                   |   |   | 153                             |   |  |                               |   |                          | 153            |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>7 536</b>                 | <b>2 309</b>               | <b>9 455</b>  | <b>838</b>                      |  | <b>16 174</b>                     | <b>3 985</b>                                | <b>147 032</b>  | <b>14 301</b>                   | <b>26 692</b>   |  |                               | <b>-6 180</b>                           | <b>2</b>                 | <b>222 143</b> |
| Differences - Ecarts - Diferencias  |                              |                            |   |                                 |  |                                   |   |   |                                 |   |  |                               | -22                                     | 69                       | 47             |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |   |                                 |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                                 |   |  |                               |   |                          |                |
| Electricity - Électricité - Electrica   | -7 536                       | -2 309                     | -9 455  |                                 |  |                                   |   | -15   |                                 | -410  | -1   |                               | 19 438                                  |                          | -288           |
| CHP - Cogénération - Cogeneración   |                              |                            |   |                                 |  |                                   |   | -30 294   |                                 | -18 202   | -2 989   |                               | 19 323                                  | 9 762                    | -25 491        |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |  |                                   |   | -2 233  |                                 | -4  |  |                               |   | 1926                     | -407           |
| Charcoal - Charbon - Carbón   |                              |                            |   |                                 |  |                                   |   |   |                                 |   | 9 271  |                               |   |                          | -0             |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |   |                                 |  |                                   |   |   |                                 |   |  |                               |   |                          | -17            |
| Other - Autres - Otras  |                              |                            |   |                                 |  |                                   |   |   |                                 |   |  |                               | -4 197                                  |                          | -2 270         |
| Own use - Consomm. propre - Uso propio  |                              |                            |   |                                 |  |                                   |   |   |                                 |   |  |                               | -1 560                                  |                          | -6 466         |
| Distribution - Distribution - Distribución  |                              |                            |   |                                 |  |                                   |   |   |                                 |   |  |                               | -599                                    |                          | -2 159         |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |   |                                 |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                                 |   |  |                               |   |                          |                |
| <b>Total - Total - Total</b>  |                              |                            | <b>838</b>  |                                 | <b>16 079</b>                            | <b>895</b>                        |   | <b>105 219</b>  | <b>14 301</b>                   | <b>8 076</b>  | <b>6 280</b>                                     |                               | <b>26 784</b>                           | <b>8 808</b>             | <b>187 279</b> |
| Industry - Industrie - Industria  |                              |                            |   |                                 | 1 522                                    |                                   |   | 20 586  | 74                              | 196   |  |                               | 11 275                                  | 2 366                    | 36 020         |
| Transport - Transport - Transporte  |                              |                            |   |                                 |  |                                   |   |   | 13 524                          | 1 637   |  |                               |   | 806                      | 15 967         |
| Commerce - Commerce - Comercial   |                              |                            |   | 183                             |  |                                   |   |   |                                 | 896   |  |                               | 7 042                                   | 2 104                    | 13 211         |
| Residential - Résidentiel - Residencial   |                              |                            |   | 655                             |  |                                   |   |   |                                 |   | 6 280  |                               | 7 173                                   | 4 274                    | 115 055        |
| Other - Autres - Otros  |                              |                            |   |                                 |  |                                   |   |   |                                 |   |  |                               | 488                                     | 63                       | 7 026          |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |   |                                 |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                                 |   |  |                               |   |                          |                |
| <b>Total - Total - Total</b>  | <b>5 326</b>                 | <b>1 632</b>               | <b>6 682</b>  | <b>838</b>                      |  | <b>16 156</b>                     | <b>2 447</b>                                | <b>116 964</b>  | <b>14 301</b>                   | <b>15 369</b>   | <b>7 564</b>                                     |                               |   |                          | <b>187 279</b> |
| Electricity - Électricité - Electrica   | 5 326                        | 1 632                      | 6 682   |                                 |  |                                   |   | 330   | 5 551                           | 6 657   | 608  |                               |   |                          | 26 784         |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |  |                                   |   | 77  | 1 223                           | 6 195   | 637  |                               |   |                          | 8 808          |
| Direct use - Utilisation directe - Uso directo  |                              |                            |   |                                 |  |                                   |   | 838   | 16 079                          | 105 219   | 14 301   |                               |   |                          | 151 687        |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |   |                                 |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                                 |   |  |                               |   |                          |                |
| Electricity - Électricité - Electrica (in/en GWh)   | 2 093                        | 641                        | 2 626   |                                 |  |                                   |   | 130   | 2 182                           |   | 2 617  | 239                           |   |                          | 10 528         |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |   |                                 |  |                                   |   | 95  | 7 635                           |   | 785  | 833                           |   |                          | 10 855         |
| 2021 (In/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                               |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios   |                                 |   | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total          |
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás                           |  |                               |   |                          |                |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaaria |                                 |  |                                   |   |   |                                 | Primary energy - Énergie primaire - Energía primaaria |  |                               |   |                          |                |
| Production - Production - Generación  | 8 671                        | 2 166                      | 8 100   | 810                             |  | 11 299                            | 4 016                                       | 163 837   | 11 278                          | 24 737  |  |                               | 6 830                                   | 5                        | 234 912        |
| Imports - Importations - Importaciones  |                              |                            |   |                                 |  |                                   |   | 5 922   | 13 348                          | 793   |  |                               | -11 822                                 | -8                       | 26 899         |
| Exports - Exportations - Exportaciones  |                              |                            |   |                                 |  |                                   |   | -15 313   | -9 550                          |   |  |                               |   |                          | -36 693        |
| Stock - Stocks - Inventario (+/-)   |                              |                            |   |                                 |  |                                   |   |   | 48                              |   |  |                               |   |                          | 48             |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>8 671</b>                 | <b>2 166</b>               | <b>8 100</b>  | <b>810</b>                      |  | <b>11 299</b>                     | <b>4 016</b>                                | <b>154 446</b>  | <b>15 124</b>                   | <b>25 530</b>   |  |                               | <b>-4 992</b>                           | <b>-3</b>                | <b>225 165</b> |
| Differences - Ecarts - Diferencias  |                              |                            |   |                                 |  |                                   |   |   |                                 |   |  |                               | -385                                    | 253                      | -132           |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |   |                                 |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                                 |   |  |                               |   |                          |                |
| Electricity - Électricité - Electrica   | -8 671                       | -2 166                     | -8 100  |                                 |  |                                   |   | -19   |                                 | -434  | -2   |                               | 19 075                                  |                          | -315           |
| CHP - Cogénération - Cogeneración   |                              |                            |   |                                 |  |                                   |   | -30 334   |                                 | -17 872   | -3 024   |                               | 19 246                                  | 10 781                   | -24 328        |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |  |                                   |   | -2 366  |                                 | -1  | -233   |                               |   | 2 249                    | -469           |
| Charcoal - Charbon - Carbón   |                              |                            |   |                                 |  |                                   |   |   |                                 |   | 9 666  |                               |   |                          | -0             |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |   |                                 |  |                                   |   |   |                                 |   |  |                               | -14                                     |                          | -14            |
| Other - Autres - Otras  |                              |                            |   |                                 |  |                                   |   |   |                                 |   |  |                               | -4 246                                  |                          | -6 670         |
| Own use - Consomm. propre - Uso propio  |                              |                            |   |                                 |  |                                   |   |   |                                 |   |  |                               | -1 646                                  |                          | -2 337         |
| Distribution - Distribution - Distribución  |                              |                            |   |                                 |  |                                   |   |   |                                 |   |  |                               | -692                                    |                          |                |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |   |                                 |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                                 |   |  |                               |   |                          |                |
| <b>Total - Total - Total</b>  |                              |                            | <b>810</b>  |                                 | <b>11 181</b>                            | <b>892</b>                        |   | <b>112 061</b>  | <b>15 124</b>                   | <b>7 233</b>  | <b>6 408</b>                                     |                               | <b>27 037</b>                           | <b>9 722</b>             | <b>190 456</b> |
| Industry - Industrie - Industria  |                              |                            |   |                                 | 1 012                                    |                                   |   | 21 263  | 74                              | 230   | 293  |                               | 11 075                                  | 2 541                    | 36 487         |
| Transport - Transport - Transporte  |                              |                            |   |                                 |  |                                   |   |   | 14 347                          | 793   |  |                               |   | 774                      | 15 914         |
| Commerce - Commerce - Comercial   |                              |                            |   | 177                             |  |                                   |   |   |                                 | 826   |  |                               | 6 880                                   | 2 203                    | 12 647         |
| Residential - Résidentiel - Residencial   |                              |                            |   | 633                             |  |                                   |   |   |                                 |   | 6 115  |                               | 7 780                                   | 4 923                    | 118 352        |
| Other - Autres - Otros  |                              |                            |   |                                 |  |                                   |   |   |                                 |   |  |                               | 528                                     | 55                       | 7 056          |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |   |                                 |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                                 |   |  |                               |   |                          |                |
| <b>Total - Total - Total</b>  | <b>6 258</b>                 | <b>1 563</b>               | <b>5 846</b>  | <b>810</b>                      |  | <b>11 276</b>                     | <b>2 575</b>                                | <b>124 666</b>  | <b>15 124</b>                   | <b>14 553</b>   | <b>7 785</b>                                     |                               |   |                          | <b>190 456</b> |
| Electricity - Électricité - Electrica   | 6 258                        | 1 563                      | 5 846   |                                 |  |                                   |   | 331   | 5 680                           | 6 737   | 622  |                               |   |                          | <b>27 037</b>  |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |  |                                   |   | 95  | 1 352                           | 6 925   | 593  |                               |   |                          | <b>9 722</b>   |
| Direct use - Utilisation directe - Uso directo  |                              |                            |   |                                 |  |                                   |   | 810   | 11 181                          | 112 061   | 15 124   |                               |   |                          | <b>153 698</b> |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |   |                                 |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                                 |   |  |                               |   |                          |                |
| Electricity - Électricité - Electrica (in/en GWh)   | 2 409                        | 602                        | 2 250   |                                 |  |                                   |   | 127   | 2 186                           |   | 2 593  | 239                           |   |                          | 10 405         |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |   |                                 |  |                                   |   | 118   | 1 682                           | 8 612   |  | 738                           | 940                                     |                          | 12 090         |

## Côte d'Ivoire

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Eoliennes<br>Éolica | Solar - Solaire - Solar                               |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primaires -<br>Biocombustibles primarios |                             |  | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Electricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total       |  |
|---|------------------------------|-----------------------------|---|---------------------------------|-------------------------------|--|-----------------------------------|---|---|-----------------------------|--|--|-------------------------------|---|--------------------------|-------------|--|
|   |                              |                             | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás |  |  |                               |   |                          |             |  |
|   |                              |                             | Primary energy - Énergie primaire - Energía primaaria |                                 |                               |  |                                   |   | Primary energy - Énergie primaire - Energía primaaria                       |                             |  |  |                               |   |                          |             |  |
| Production - Production - Generación  | 10 310                       |                             |   | 42                              |                               |  |                                   |   | 105 512   |                             |  |  | 0                             | 183                                     |                          | 115 865     |  |
| Imports - Importations - Importaciones  |                              |                             |   |                                 |                               |  |                                   | - 0   |   |                             |  | - 1  | - 670                         |   | 183                      |             |  |
| Exports - Exportations - Exportaciones  |                              |                             |   |                                 |                               |  |                                   |   | 105 512   |                             |  |  | - 1                           | - 487                                   |                          | - 671       |  |
| Stock - Stocks - Inventario (+/-)   | 10 310                       |                             |   | 42                              |                               |  |                                   |   |   |                             |  |  | - 10                          |   | 115 376                  |             |  |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>10 310</b>                |                             |   | <b>42</b>                       |                               |  |                                   |   |   |                             |  |  |                               |   |                          | <b>- 10</b> |  |
| Differences - Ecarts - Diferencias  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |             |  |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |             |  |
| Electricity - Électricité - Electrica   | - 10 310                     |                             |   | - 42                            |                               |  |                                   |   |   |                             |  |  |                               | 10 353                                  |                          |             |  |
| CHP - Cogénération - Cogeneración   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |             |  |
| Heat - Chaleur - Calor  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |             |  |
| Charcoal - Charbon - Carbón   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |             |  |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |             |  |
| Other - Autres - Otras  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |             |  |
| Own use - Consomm. propre - Uso propio  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |             |  |
| Distribution - Distribution - Distribución  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |             |  |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |             |  |
| Total - Total - Total   |                              |                             |   |                                 |                               |  |                                   |   | 66 992  |                             |  |  | 17 436                        | 8 702                                   |                          | 93 130      |  |
| Industry - Industrie - Industria  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  | 2 545                         |   |                          |             |  |
| Transport - Transport - Transporte  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |             |  |
| Commerce - Commerce - Comercial   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |             |  |
| Residential - Résidentiel - Residencial   |                              |                             |   |                                 |                               |  |                                   |   | 5 326   |                             |  |  | 3 486                         | 1 942                                   |                          | 10 754      |  |
| Other - Autres - Otros  |                              |                             |   |                                 |                               |  |                                   |   | 61 666  |                             |  |  | 13 950                        | 3 958                                   |                          | 79 574      |  |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |             |  |
| Total - Total - Total   | 8 666                        |                             |   | 35                              |                               |  |                                   |   | 66 992  |                             |  |  | 17 436                        |   |                          | 93 130      |  |
| Electricity - Électricité - Electrica   | 8 666                        |                             |   | 35                              |                               |  |                                   |   |   |                             |  |  |                               |   |                          | 8 702       |  |
| Heat - Chaleur - Calor  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |             |  |
| Direct use - Utilisation directe - Uso directo  |                              |                             |   |                                 |                               |  |                                   |   | 66 992  |                             |  |  | 17 436                        |   |                          | 84 428      |  |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |             |  |
| Electricity - Électricité - Electrica (in/en GWh)   | 2 864                        |                             |   | 12                              |                               |  |                                   |   |   |                             |  |  |                               |   |                          | 2 876       |  |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |             |  |
| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Eoliennes<br>Éolica | Solar - Solaire - Solar                               |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primaires -<br>Biocombustibles primarios |                             |  | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Electricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total       |  |
|   |                              |                             | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás |  |  |                               |   |                          |             |  |
|   |                              |                             | Primary energy - Énergie primaire - Energía primaaria |                                 |                               |  |                                   |   | Primary energy - Énergie primaire - Energía primaaria                       |                             |  |  |                               |   |                          |             |  |
| Production - Production - Generación  | 9 457                        |                             |   | 36                              |                               |  |                                   |   | 105 244   |                             |  |  | 0                             | 105                                     |                          | 114 738     |  |
| Imports - Importations - Importaciones  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  | - 0                           | - 466                                   |                          | 105         |  |
| Exports - Exportations - Exportaciones  |                              |                             |   |                                 |                               |  |                                   |   | 105 244   |                             |  |  | - 0                           | - 362                                   |                          | - 466       |  |
| Stock - Stocks - Inventario (+/-)   | 9 457                        |                             |   | 36                              |                               |  |                                   |   |   |                             |  |  | - 10                          |   | 114 376                  |             |  |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>9 457</b>                 |                             |   | <b>36</b>                       |                               |  |                                   |   |   |                             |  |  |                               |   |                          | <b>- 10</b> |  |
| Differences - Ecarts - Diferencias  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |             |  |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |             |  |
| Electricity - Électricité - Electrica   | - 9 457                      |                             |   | - 36                            |                               |  |                                   |   |   |                             |  |  |                               | 9 494                                   |                          |             |  |
| CHP - Cogénération - Cogeneración   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |             |  |
| Heat - Chaleur - Calor  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |             |  |
| Charcoal - Charbon - Carbón   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |             |  |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |             |  |
| Other - Autres - Otras  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |             |  |
| Own use - Consomm. propre - Uso propio  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |             |  |
| Distribution - Distribution - Distribución  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |             |  |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |             |  |
| Total - Total - Total   |                              |                             |   |                                 |                               |  |                                   |   | 67 206  |                             |  |  | 17 219                        | 7 957                                   |                          | 92 382      |  |
| Industry - Industrie - Industria  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  | 2 354                         |   |                          |             |  |
| Transport - Transport - Transporte  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |             |  |
| Commerce - Commerce - Comercial   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |             |  |
| Residential - Résidentiel - Residencial   |                              |                             |   |                                 |                               |  |                                   |   | 5 578   |                             |  |  | 3 572                         | 2 524                                   |                          | 11 674      |  |
| Other - Autres - Otros  |                              |                             |   |                                 |                               |  |                                   |   | 61 628  |                             |  |  | 13 647                        | 2 825                                   |                          | 76 100      |  |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |             |  |
| Total - Total - Total   | 7 926                        |                             |   | 30                              |                               |  |                                   |   | 67 206  |                             |  |  | 17 219                        |   |                          | 92 382      |  |
| Electricity - Électricité - Electrica   | 7 926                        |                             |   | 30                              |                               |  |                                   |   |   |                             |  |  |                               |   |                          | 7 957       |  |
| Heat - Chaleur - Calor  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |             |  |
| Direct use - Utilisation directe - Uso directo  |                              |                             |   |                                 |                               |  |                                   |   | 67 206  |                             |  |  | 17 219                        |   |                          | 84 425      |  |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |             |  |
| Electricity - Électricité - Electrica (in/en GWh)   | 2 627                        |                             |   | 10                              |                               |  |                                   |   |   |                             |  |  |                               |   |                          | 2 637       |  |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |             |  |

## Democratic Republic of the Congo

## Democratic Republic of the Congo

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                        | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                                 |                                 | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Carbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor                  | Total                                       |                             |
|---|------------------------------|----------------------------|--|--|-----------------------------------|---|---|---------------------------------|---------------------------------|--|------------------------------|---|---|---|-----------------------------|
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás     |  |                              |   |   |   |                             |
|   |                              |                            |  |  |                                   |   |   |                                 |                                 |  |                              |   |   |   |                             |
| <b>Primary energy - Énergie primaire - Energía primaaria</b>  |                              |                            |  |  |                                   |   |   |                                 |                                 |  |                              |   |   |   |                             |
| Production - Production - Generación  | 47 890                       |                            | 7 610  |  |                                   |   | 1 021 572   |                                 |                                 |  |                              | 3 533<br>- 221                          |   | 1 077 072<br>3 533<br>- 221                 |                             |
| Imports - Importations - Importaciones  |                              |                            |  |  |                                   |   |   |                                 |                                 |  |                              |   |   |   |                             |
| Exports - Exportations - Exportaciones  |                              |                            |  |  |                                   |   |   |                                 |                                 |  |                              |   |   |   |                             |
| Stock - Stocks - Inventario (+/-)   | 47 890                       |                            | 7 610  |  |                                   |   | 1 021 572   |                                 |                                 |  |                              | 3 313<br>- 514                          |   | 1 080 385<br>- 514                          |                             |
| <b>Supply - Approvisionnement - Oferta</b>  |                              |                            |  |  |                                   |   |   |                                 |                                 |  |                              |   |   |   |                             |
| Differences - Ecarts - Diferencias  |                              |                            |  |  |                                   |   |   |                                 |                                 |  |                              |   |   |   |                             |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |  |                                   |   |   |                                 |                                 |  |                              |   |   |   |                             |
| Electricity - Électricité - Electrica   | - 47 890                     |                            | - 7 610  |  |                                   |   | - 28  |                                 |                                 |  |                              | 55 528                                  |   |   |                             |
| CHP - Cogénération - Cogeneración   |                              |                            |  |  |                                   |   |   |                                 |                                 |  |                              |   |   |   |                             |
| Heat - Chaleur - Calor  |                              |                            |  |  |                                   |   |   |                                 |                                 |  |                              |   |   |   |                             |
| Charcoal - Charbon - Carbón   |                              |                            |  |  |                                   |   |   |                                 |                                 |  |                              |   |   |   |                             |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |  |  |                                   |   |   |                                 |                                 |  |                              |   |   |   |                             |
| Other - Autres - Otras  |                              |                            |  |  |                                   |   |   |                                 |                                 |  |                              |   |   |   |                             |
| Own use - Consomm. propre - Uso propio  |                              |                            |  |  |                                   |   |   |                                 |                                 |  |                              |   |   |   |                             |
| Distribution - Distribución - Distribución  |                              |                            |  |  |                                   |   |   |                                 |                                 |  |                              |   |   |   |                             |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |  |                                   |   |   |                                 |                                 |  |                              |   |   |   |                             |
| Total - Total - Total   |                              |                            |  |  |                                   |   | 819 201<br>18 978   |                                 |                                 |  |                              | 91 596                                  | 42 095<br>21 817                          | 952 892<br>40 795                           |                             |
| Industry - Industrie - Industria  |                              |                            |  |  |                                   |   |   |                                 |                                 |  |                              |   |   |   |                             |
| Transport - Transport - Transporte  |                              |                            |  |  |                                   |   |   |                                 |                                 |  |                              |   |   |   |                             |
| Commerce - Commerce - Comercial   |                              |                            |  |  |                                   |   | 789 224<br>10 999   |                                 |                                 |  |                              | 91 596                                  | 1 493<br>18 786                           | 1 493<br>899 605<br>10 999                  |                             |
| Residential - Résidentiel - Residencial   |                              |                            |  |  |                                   |   |   |                                 |                                 |  |                              |   |   |   |                             |
| Other - Autres - Otros  |                              |                            |  |  |                                   |   |   |                                 |                                 |  |                              |   |   |   |                             |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |  |                                   |   |   |                                 |                                 |  |                              |   |   |   |                             |
| Total - Total - Total   | 36 305                       |                            | 5 769  |  |                                   |   | 819 222<br>21   |                                 |                                 |  |                              | 91 596                                  |   | 952 892<br>42 095                           |                             |
| Electricity - Électricité - Electrica   | 36 305                       |                            | 5 769  |  |                                   |   | 819 201   |                                 |                                 |  |                              | 91 596                                  |   | 910 796                                     |                             |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |  |  |                                   |   |   |                                 |                                 |  |                              |   |   |   |                             |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |  |                                   |   |   |                                 |                                 |  |                              |   |   |   |                             |
| Electricity - Electricité - Electrica (in/en GWh)   | 13 303                       |                            | 2 114  |  |                                   |   | 8   |                                 |                                 |  |                              |   |   | 15 424                                      |                             |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |  |  |                                   |   |   |                                 |                                 |  |                              |   |   |   |                             |
| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                        | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                                 |                                 | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Carbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor                  | Total                                       |                             |
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica |  |                                   |   | Thermal<br>Thermique<br>Térmica   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos |  |                              |   |   |   | Biogas - Biogaz<br>- Biogás |
|   |                              |                            |  |  |                                   |   |   |                                 |                                 |  |                              |   |   |   |                             |
| <b>Primary energy - Énergie primaire - Energía primaaria</b>  |                              |                            |  |  |                                   |   |   |                                 |                                 |  |                              |   |   |   |                             |
| Production - Production - Generación  | 47 671                       |                            | 3 798  |  |                                   |   | 1 008 496   |                                 |                                 |  |                              |   | 3 534<br>- 221                            | 1 059 965<br>3 534<br>- 221                 |                             |
| Imports - Importations - Importaciones  |                              |                            |  |  |                                   |   |   |                                 |                                 |  |                              |   |   |   |                             |
| Exports - Exportations - Exportaciones  |                              |                            |  |  |                                   |   |   |                                 |                                 |  |                              |   |   |   |                             |
| Stock - Stocks - Inventario (+/-)   | 47 671                       |                            | 3 798  |  |                                   |   | 1 008 496   |                                 |                                 |  |                              |   | 3 313<br>- 501                            | 1 063 278<br>- 501                          |                             |
| <b>Supply - Approvisionnement - Oferta</b>  |                              |                            |  |  |                                   |   |   |                                 |                                 |  |                              |   |   |   |                             |
| Differences - Ecarts - Diferencias  |                              |                            |  |  |                                   |   |   |                                 |                                 |  |                              |   |   |   |                             |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |  |                                   |   |   |                                 |                                 |  |                              |   |   |   |                             |
| Electricity - Électricité - Electrica   | - 47 671                     |                            | - 3 798  |  |                                   |   | - 28  |                                 |                                 |  |                              |   | 51 497                                    |   |                             |
| CHP - Cogénération - Cogeneración   |                              |                            |  |  |                                   |   |   |                                 |                                 |  |                              |   |   |   |                             |
| Heat - Chaleur - Calor  |                              |                            |  |  |                                   |   |   |                                 |                                 |  |                              |   |   |   |                             |
| Charcoal - Charbon - Carbón   |                              |                            |  |  |                                   |   |   |                                 |                                 |  |                              |   |   |   |                             |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |  |  |                                   |   |   |                                 |                                 |  |                              |   |   |   |                             |
| Other - Autres - Otras  |                              |                            |  |  |                                   |   |   |                                 |                                 |  |                              |   |   |   |                             |
| Own use - Consomm. propre - Uso propio  |                              |                            |  |  |                                   |   |   |                                 |                                 |  |                              |   |   |   |                             |
| Distribution - Distribución - Distribución  |                              |                            |  |  |                                   |   |   |                                 |                                 |  |                              |   |   |   |                             |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |  |                                   |   |   |                                 |                                 |  |                              |   |   |   |                             |
| Total - Total - Total   |                              |                            |  |  |                                   |   | 812 210<br>19 072   |                                 |                                 |  |                              | 88 841                                  | 41 772<br>27 858<br>49<br>1 591<br>12 273 | 942 823<br>46 931<br>49<br>1 591<br>894 251 |                             |
| Industry - Industrie - Industria  |                              |                            |  |  |                                   |   |   |                                 |                                 |  |                              |   |   |   |                             |
| Transport - Transport - Transporte  |                              |                            |  |  |                                   |   |   |                                 |                                 |  |                              |   |   |   |                             |
| Commerce - Commerce - Comercial   |                              |                            |  |  |                                   |   |   |                                 |                                 |  |                              |   |   |   |                             |
| Residential - Résidentiel - Residencial   |                              |                            |  |  |                                   |   |   |                                 |                                 |  |                              |   |   |   |                             |
| Other - Autres - Otros  |                              |                            |  |  |                                   |   |   |                                 |                                 |  |                              |   |   |   |                             |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |  |                                   |   |   |                                 |                                 |  |                              |   |   |   |                             |
| Total - Total - Total   | 38 668                       |                            | 3 081  |  |                                   |   | 812 233<br>23   |                                 |                                 |  |                              | 88 841                                  |   | 942 823<br>41 772                           |                             |
| Electricity - Électricité - Electrica   | 38 668                       |                            | 3 081  |  |                                   |   | 812 210   |                                 |                                 |  |                              | 88 841                                  |   | 901 051                                     |                             |
| Heat - Chaleur - Calor  |                              |                            |  |  |                                   |   |   |                                 |                                 |  |                              |   |   |   |                             |
| Direct use - Utilisation directe - Uso directo  |                              |                            |  |  |                                   |   |   |                                 |                                 |  |                              |   |   |   |                             |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |  |                                   |   |   |                                 |                                 |  |                              |   |   |   |                             |
| Electricity - Electricité - Electrica (in/en GWh)   | 13 242                       |                            | 1 055  |  |                                   |   | 8   |                                 |                                 |  |                              |   |   | 14 305                                      |                             |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |  |  |                                   |   |   |                                 |                                 |  |                              |   |   |   |                             |

## Denmark

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                        |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primaria -<br>Biocombustibles primarios |                             |        | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Carbon<br>Carbon | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total              |   |                               |
|---|------------------------------|----------------------------|--|---------------------------------|-------------------------------|--|-----------------------------------|---|--|-----------------------------|--------|--|------------------------------|---|--------------------------|--------------------|---|-------------------------------|
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Liquídos  | Biogas - Biogaz<br>- Biogás |        |  |                              |   |                          |                    |   |                               |
|   |                              |                            |  |                                 |                               |  |                                   |   |  |                             |        |  |                              |   |                          |                    |   |                               |
| <b>Primary energy - Énergie primaire - Energía primaria</b>   |                              |                            |  |                                 |                               |  |                                   |   |  |                             |        |  |                              |   |                          |                    |   |                               |
| Production - Production - Generación  | 54                           | 68 500                     | 7 929  | 3 327                           | 82                            | 19 143                                   | 18 855                            | 2 844                                       | 65 070   | 21 085                      | 89     | 28 848   | 44 829                       |   | 54 804<br>- 50 821       | 68                 | 211 897<br>138 934<br>- 56 643<br>1 435 |                               |
| Imports - Importations - Importaciones  |                              |                            |  |                                 |                               |  |                                   |   | 15 305<br>- 5 822<br>1 435   |                             |        |  |                              |   |                          |                    | 295 623<br>- 1 801                      |                               |
| Exports - Exportations - Exportaciones  |                              |                            |  |                                 |                               |  |                                   |   | 11 007<br>- 1 136  |                             | 28 848 | 44 829   |                              | 3 982<br>- 327                          | 68                       | 295 623<br>- 1 801 |   |                               |
| Stock - Stocks - Inventario (+/-)   | 54                           | 68 500                     | 7 929  | 3 327                           | 82                            | 19 143                                   | 21 698                            | 0   | 86 155<br>- 76   |                             |        |  |                              |   |                          |                    |   |                               |
| <b>Supply - Approvisionnement - Oferta</b>  |                              |                            |  |                                 |                               |  |                                   |   |  |                             |        |  |                              |   |                          |                    |   |                               |
| Differences - Ecarts - Diferencias  |                              |                            |  |                                 |                               |  |                                   |   |  |                             |        |  |                              |   |                          |                    |   |                               |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |                                 |                               |  |                                   |   |  |                             |        |  |                              |   |                          |                    |   |                               |
| Electricity - Electricité - Electrica   | - 54                         | - 68 500                   | - 7 929  |                                 |                               |  |                                   |   | - 18 843   | - 1103                      | - 89   | - 22   | - 4 954<br>- 93              | - 33 411<br>- 1 406                     |                          | 76 489<br>26 178   | 58 930<br>26 344                        | - 16<br>- 12 478<br>- 1 083   |
| CHP - Cogénération - Cogeneración   |                              |                            |  |                                 |                               |  |                                   |   | - 40 378<br>- 20 410   |                             |        |  |                              |   |                          |                    | 0                                       |                               |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |                               |  |                                   |   | - 2 520  |                             |        |  | 2 520                        |   |                          |                    |   | - 3 627<br>- 8 486            |
| Charcoal - Charbon - Carbón   |                              |                            |  |                                 |                               |  |                                   |   | 0  |                             | - 124  |  |                              |   |                          |                    |   | - 22 616                      |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |  |                                 |                               |  |                                   |   |  |                             |        |  |                              |   |                          |                    |   |                               |
| Other - Autres - Otras  |                              |                            |  |                                 |                               |  |                                   |   |  |                             |        |  |                              |   |                          |                    |   |                               |
| Own use - Consomm. propre - Uso propio  |                              |                            |  |                                 |                               |  |                                   |   |  |                             |        |  |                              |   |                          |                    |   |                               |
| Distribution - Distribution - Distribución  |                              |                            |  |                                 |                               |  |                                   |   |  |                             |        |  |                              |   |                          |                    |   |                               |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |                                 |                               |  |                                   |   |  |                             |        |  |                              |   |                          |                    |   |                               |
| Total - Total - Total   |                              |                            |  | 611                             |                               | 17 615                                   | 3 089                             | 1 410                                       | 22 771   | 3 713                       | 9 782  | 23 655   | 12 531                       | 89 441                                  | 68 926                   | 247 084            |   |                               |
| Industry - Industrie - Industria  |                              |                            |  | 92                              |                               | 342                                      | 66                                |   | 9 782  |                             | 569    | 877  |                              | 25 704<br>2 588                         | 2 614                    | 37 975             |   |                               |
| Transport - Transport - Transporte  |                              |                            |  | 519                             |                               | 13 006                                   | 1 519                             | 2 206                                       | 385  |                             | 1 002  | 10 652   |                              | 28 467                                  | 20 720                   | 12 370             |   |                               |
| Commerce - Commerce - Comercial   |                              |                            |  |                                 |                               |  |                                   |   | 22 701   |                             |        |  |                              | 27 824                                  | 44 647                   | 51 074             |   |                               |
| Residential - Résidentiel - Residencial   |                              |                            |  |                                 |                               |  |                                   |   |  |                             |        |  |                              | 4 859                                   | 945                      | 113 435            |   |                               |
| Other - Autres - Otras  |                              |                            |  |                                 |                               |  |                                   |   |  |                             |        |  |                              |   |                          |                    | 32 230                                  |                               |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |                                 |                               |  |                                   |   |  |                             |        |  |                              |   |                          |                    |   |                               |
| Total - Total - Total   | 53                           | 67 281                     | 7 788  | 3 283                           | 40                            | 18 667                                   | 20 164                            |   | 53 536   |                             | 9 859  | 27 511   | 38 901                       |   |                          | 247 084            |   |                               |
| Electricity - Electricité - Electrica   | 53                           | 67 281                     | 7 788  | 2 672                           | 40                            | 1 052                                    | 3 608                             |   | - 2 718  |                             | 2 031  | 11 398   |                              |   |                          | 89 441             |   |                               |
| Heat - Chaleur - Calor  |                              |                            |  | 611                             |                               | 14 805                                   | 33 483                            |   | 78   |                             | 1 825  | 14 971   |                              |   |                          | 68 926             |   |                               |
| Direct use - Utilisation directe - Uso directo  |                              |                            |  |                                 |                               | 17 52                                    | 22 771                            |   | 9 782  |                             | 23 655 | 12 531   |                              |   |                          | 88 717             |   |                               |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |                                 |                               |  |                                   |   |  |                             |        |  |                              |   |                          |                    |   |                               |
| Electricity - Electricité - Electrica (in/en GWh)   | 15                           | 19 028                     | 2 203  | 2 715                           | 41                            | 1 070                                    | 1 020                             |   | - 769  |                             | 574    | 3 224  |                              |   |                          | 25 295             |   |                               |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |  |                                 |                               |  | 34 032                            |   | 79   | 1 855                       | 15 217 |  |                              |   |                          |                    | 70 057                                  |                               |
| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                        |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primaria -<br>Biocombustibles primarios |                             |        | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Carbon<br>Carbon | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total              |   |                               |
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Liquídos  | Biogas - Biogaz<br>- Biogás |        |  |                              |   |                          |                    |   |                               |
|   |                              |                            |  |                                 |                               |  |                                   |   |  |                             |        |  |                              |   |                          |                    |   |                               |
| <b>Primary energy - Énergie primaire - Energía primaria</b>   |                              |                            |  |                                 |                               |  |                                   |   |  |                             |        |  |                              |   |                          |                    |   |                               |
| Production - Production - Generación  | 59                           | 57 796                     | 4 712  | 2 887                           | 54                            | 16 647                                   | 19 296                            | 2 844                                       | 63 908   | 23 648                      | 171    | 26 166   | 65 005                       |   | 57 194<br>- 43 354       | 74                 | 191 697<br>165 291<br>- 46 259          |                               |
| Imports - Importations - Importaciones  |                              |                            |  |                                 |                               |  |                                   |   | 16 526<br>- 2 906<br>- 2 346   |                             |        |  |                              |   |                          |                    | - 2 346                                 |                               |
| Exports - Exportations - Exportaciones  |                              |                            |  |                                 |                               |  |                                   |   | 11 446<br>- 530  |                             | 26 166 | 65 005   |                              | 13 841<br>- 347                         | 74<br>- 265              | 308 383<br>- 1201  |   |                               |
| Stock - Stocks - Inventario (+/-)   | 59                           | 57 796                     | 4 712  | 2 887                           | 54                            | 16 647                                   | 22 140                            | 0   | 87 556<br>- 61   |                             |        |  |                              |   |                          |                    |   |                               |
| <b>Supply - Approvisionnement - Oferta</b>  |                              |                            |  |                                 |                               |  |                                   |   |  |                             |        |  |                              |   |                          |                    |   |                               |
| Differences - Ecarts - Diferencias  |                              |                            |  |                                 |                               |  |                                   |   |  |                             |        |  |                              |   |                          |                    |   |                               |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |                                 |                               |  |                                   |   |  |                             |        |  |                              |   |                          |                    |   |                               |
| Electricity - Electricité - Electrica   | - 59                         | - 57 796                   | - 4 712  |                                 |                               |  |                                   |   | - 18 904<br>- 1 350  |                             | - 171  | - 18   | - 5 387<br>- 1 977           | - 45 430                                |                          | 62 572<br>31 381   | 65 755<br>27 371                        | - 12<br>- 14 529<br>- 797     |
| CHP - Cogénération - Cogeneración   |                              |                            |  |                                 |                               |  |                                   |   | - 1 667  |                             |        |  | 1 667                        |   |                          |                    |   | - 0                           |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |                               |  |                                   |   |  |                             |        |  | - 119                        |   |                          |                    |   | - 3 401<br>- 7 540<br>- 5 236 |
| Charcoal - Charbon - Carbón   |                              |                            |  |                                 |                               |  |                                   |   |  |                             |        |  |                              |   |                          |                    | - 569<br>- 18 777                       |                               |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |  |                                 |                               |  |                                   |   |  |                             |        |  |                              |   |                          |                    | - 24 013                                |                               |
| Other - Autres - Otras  |                              |                            |  |                                 |                               |  |                                   |   |  |                             |        |  |                              |   |                          |                    |   |                               |
| Own use - Consomm. propre - Uso propio  |                              |                            |  |                                 |                               |  |                                   |   |  |                             |        |  |                              |   |                          |                    |   |                               |
| Distribution - Distribution - Distribución  |                              |                            |  |                                 |                               |  |                                   |   |  |                             |        |  |                              |   |                          |                    |   |                               |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |                                 |                               |  |                                   |   |  |                             |        |  |                              |   |                          |                    |   |                               |
| Total - Total - Total   |                              |                            |  | 611                             |                               | 15 229                                   | 2 778                             | 1 600                                       | 23 061   | 2 873                       | 10 745 | 20 544   | 19 265                       | 91 270                                  | 75 104                   | 257 715            |   |                               |
| Industry - Industrie - Industria  |                              |                            |  | 92                              |                               | 286                                      | 11 154                            | 1 297                                       | 10 745   |                             | 385    | 1 356  | 1 450                        | 25 677<br>1 936                         | 2 466                    | 37 235             |   |                               |
| Transport - Transport - Transporte  |                              |                            |  | 519                             |                               | 17 731                                   | 2 281                             | 2 281                                       | 19 768   |                             |        |  |                              | 27 603                                  | 22 712                   | 12 681             |   |                               |
| Commerce - Commerce - Comercial   |                              |                            |  |                                 |                               |  |                                   |   |  |                             |        |  |                              | 30 810                                  | 48 941                   | 52 610             |   |                               |
| Residential - Résidentiel - Residencial   |                              |                            |  |                                 |                               |  |                                   |   |  |                             |        |  |                              | 5 243                                   | 985                      | 125 615            |   |                               |
| Other - Autres - Otras  |                              |                            |  |                                 |                               |  |                                   |   |  |                             |        |  |                              |   |                          |                    | 29 573                                  |                               |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |                                 |                               |  |                                   |   |  |                             |        |  |                              |   |                          |                    |   |                               |
| Total - Total - Total   | 69                           | 68 006                     | 5 545  | 2 956                           | 28                            | 16 250                                   | 22 254                            |   | 47 046   |                             | 10 904 | 25 276   | 59 380                       |   |                          | 257 715            |   |                               |
| Electricity - Electricité - Electrica   | 69                           | 68 006                     | 5 545  | 2 345                           | 28                            | 1 022                                    | 4 113                             |   | - 8 348  |                             | 2 603  | 19 281   |                              |   |                          | 91 270             |   |                               |
| Heat - Chaleur - Calor  |                              |                            |  | 611                             |                               | 16 255                                   | 18 886                            |   | 32 333   |                             | 160    | 2 129  | 20 834                       |   |                          | 75 104             |   |                               |
| Direct use - Utilisation directe - Uso directo  |                              |                            |  |                                 |                               |  | 23 061                            |   | 10 745   |                             | 20 544 | 19 265   |                              |   |                          | 91 341             |   |                               |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |                                 |                               |  |                                   |   |  |                             |        |  |                              |   |                          |                    |   |                               |
| Electricity - Electricité - Electrica (in/en GWh)   | 16                           | 16 054                     | 1 309  | 2 276                           | 27                            | 992                                      | 15 779                            |   | - 1 971  |                             | 615    | 4 552  |                              |   |                          | 21 546             |   |                               |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |  |                                 |                               |  |                                   | 31 385                                      |  | 155                         | 2 067  | 20 223   |                              |   |                          |                    | 72 903                                  |                               |

## Ecuador

| 2022 (in/en TJ)  | Hydro/Marine<br>Hydro/Marina  | Wind<br>Éolienne<br>Éolica      | Solar - Solaire - Solar<br>Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Carbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor                            | Total  |
|--|-------------------------------|---------------------------------|---|---------------------------------|--|-----------------------------------|---|---|--|------------------------------|---|---|--|
|  | Solids - Solides<br>- Solidos | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás   |                                 |  |                                   |   |   |  |                              |   |   |  |
| <b>Primary energy - Énergie primaire - Energía primaria</b>  |                               |                                 |   |                                 |  |                                   |   |   |  |                              |   |   |  |
| Production - Production - Generación<br>Imports - Importations - Importaciones<br>Exports - Exportations - Exportaciones<br>Stock - Stocks - Inventario (+/-)<br><b>Supply - Approvisionnement - Oferta</b><br><i>Differences - écarts - Diferencias</i>   | 88 687                        | 218                             | 139   |                                 |  |                                   |   | 17 171  | 1 628  | 919                          |   | 1 277<br>- 526                                      | 108 761<br>1 277<br>- 526                              |
|  |                               |                                 |   |                                 |  |                                   |   | 17 171<br>- 8   | 1 628  | 919                          |   | 751<br>- 264  | 109 512<br>- 272                                       |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>  |                               |                                 |   |                                 |  |                                   |   |   |  |                              |   |   |  |
| Electricity - Électricité - Electrica<br>CHP - Cogénération - Cogeneración<br>Heat - Chaleur - Calor<br>Charcoal - Carbon - Carbón<br>Pellets/briq. - Granules/briq. - Pellets/briq.<br>Other - Autres - Otras<br>Own use - Consomm. propre - Uso propio<br>Distribution - Distribution - Distribución | - 88 687                      | - 218                           | - 139   |                                 |  |                                   |   | - 2 167   |  | - 919                        |   | 89 193<br>1 253                                     | - 769<br>- 914   |
|  |                               |                                 |   |                                 |  |                                   |   |   |  |                              |   | - 1 189<br>- 13 577                                 | - 1 189<br>- 13 577                                    |
| <b>Final consumption - Consommation finale - Consumo final</b>   |                               |                                 |   |                                 |  |                                   |   |   |  |                              |   |   |  |
| Total - Total - Total<br>Industry - Industrie - Industria<br>Transport - Transport - Transporte<br>Commerce - Commerce - Comercial<br>Residential - Résidentiel - Residencial<br>Other - Autres - Otros  |                               |                                 |   |                                 |  |                                   |   | 14 996<br>8 151<br>6 845  | 1 628  |                              |   | 76 167<br>32 339<br>30<br>20 241<br>21 463<br>2 093 | 92 790<br>40 490<br>1 658<br>20 241<br>28 308<br>2 093 |
|  |                               |                                 |   |                                 |  |                                   |   |   |  |                              |   |   |  |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>   |                               |                                 |   |                                 |  |                                   |   |   |  |                              |   |   |  |
| Total - Total - Total<br>Electricity - Électricité - Electrica<br>Heat - Chaleur - Calor<br>Direct use - Utilisation directe - Uso directo   | 74 685                        | 184                             | 117   |                                 |  |                                   |   | 16 051<br>1 055<br>14 996   | 1 628  | 126<br>126                   |   |   | 92 790<br>76 167<br>16 624                             |
|  |                               |                                 |   |                                 |  |                                   |   |   |  |                              |   |   |  |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b>  |                               |                                 |   |                                 |  |                                   |   |   |  |                              |   |   |  |
| Electricity - Électricité - Electrica (in/en GWh)<br>Heat - Chaleur - Calor (in/en TJ)   | 24 635                        | 61                              | 39  |                                 |  |                                   |   | 348   |  | 42                           |   |   | 25 124   |

## Ecuador

| 2021 (in/en TJ)  | Hydro/Marine<br>Hydro/Marina  | Wind<br>Éolienne<br>Éolica      | Solar - Solaire - Solar<br>Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Carbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor                            | Total  |
|--|-------------------------------|---------------------------------|---|---------------------------------|--|-----------------------------------|---|---|--|------------------------------|---|---|--|
|  | Solids - Solides<br>- Solidos | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás   |                                 |  |                                   |   |   |  |                              |   |   |  |
| <b>Primary energy - Énergie primaire - Energía primaria</b>  |                               |                                 |   |                                 |  |                                   |   |   |  |                              |   |   |  |
| Production - Production - Generación<br>Imports - Importations - Importaciones<br>Exports - Exportations - Exportaciones<br>Stock - Stocks - Inventario (+/-)<br><b>Supply - Approvisionnement - Oferta</b><br><i>Differences - écarts - Diferencias</i>   | 92 026                        | 223                             | 133   |                                 |  |                                   |   | 20 075  | 1 389  | 932                          |   | 1 061<br>- 1 528                                    | 114 778<br>1 061<br>- 1 528                            |
|  |                               |                                 |   |                                 |  |                                   |   | 20 075<br>- 7   | 1 389  | 932                          |   | - 467<br>- 280                                      | 114 311<br>- 288                                       |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>  |                               |                                 |   |                                 |  |                                   |   |   |  |                              |   |   |  |
| Electricity - Électricité - Electrica<br>CHP - Cogénération - Cogeneración<br>Heat - Chaleur - Calor<br>Charcoal - Carbon - Carbón<br>Pellets/briq. - Granules/briq. - Pellets/briq.<br>Other - Autres - Otras<br>Own use - Consomm. propre - Uso propio<br>Distribution - Distribution - Distribución | - 92 026                      | - 223                           | - 133   |                                 |  |                                   |   | - 2 408   |  | - 932                        |   | 92 534<br>1 342                                     | - 780<br>- 1 066                                       |
|  |                               |                                 |   |                                 |  |                                   |   |   |  |                              |   | - 942<br>- 13 547                                   | - 942<br>- 13 547                                      |
| <b>Final consumption - Consommation finale - Consumo final</b>   |                               |                                 |   |                                 |  |                                   |   |   |  |                              |   |   |  |
| Total - Total - Total<br>Industry - Industrie - Industria<br>Transport - Transport - Transporte<br>Commerce - Commerce - Comercial<br>Residential - Résidentiel - Residencial<br>Other - Autres - Otros  |                               |                                 |   |                                 |  |                                   |   | 17 660<br>10 361<br>7 299   | 1 389<br>1 389                                   |                              |   | 78 640<br>33 185<br>32<br>20 385<br>23 207<br>1 831 | 97 689<br>43 546<br>1 421<br>20 385<br>30 506<br>1 831 |
|  |                               |                                 |   |                                 |  |                                   |   |   |  |                              |   |   |  |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>   |                               |                                 |   |                                 |  |                                   |   |   |  |                              |   |   |  |
| Total - Total - Total<br>Electricity - Électricité - Electrica<br>Heat - Chaleur - Calor<br>Direct use - Utilisation directe - Uso directo   | 77 091                        | 187                             | 111   |                                 |  |                                   |   | 18 784<br>1 124<br>17 660   | 1 389<br>1 389                                   | 127<br>127                   |   |   | 97 689<br>78 640<br>19 048                             |
|  |                               |                                 |   |                                 |  |                                   |   |   |  |                              |   |   |  |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b>  |                               |                                 |   |                                 |  |                                   |   |   |  |                              |   |   |  |
| Electricity - Électricité - Electrica (in/en GWh)<br>Heat - Chaleur - Calor (in/en TJ)   | 25 563                        | 62                              | 37  |                                 |  |                                   |   | 373   |  | 42                           |   |   | 26 077   |

## Egypt

## Egypt

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                        |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total         |                |
|---|------------------------------|----------------------------|--|---------------------------------|--|-----------------------------------|---|---|--|-------------------------------|---|--------------------------|---------------|----------------|
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos                  | Biogas - Biogaz<br>- Biogás   |   |                          |               |                |
| <b>Primary energy - Énergie primaire - Energía primaria</b>   |                              |                            |  |                                 |  |                                   |   |   |  |                               |   |                          |               |                |
| Production - Production - Generación  | 55 649                       | 20 439                     | 16 287   | 8 360                           |  |                                   |   | 232 034   |  | 108                           |   | 12                       |               | 332 877        |
| Imports - Importations - Importaciones  |                              |                            |  |                                 | 244                                      |                                   |   | - 1142  |  |                               |   | - 1                      |               | 257            |
| Exports - Exportations - Exportaciones  |                              |                            |  |                                 |  |                                   |   |   |  |                               |   |                          |               | - 1 733        |
| Stock - Stocks - Inventario (+/-)   |                              |                            |  |                                 |  |                                   |   |   |  |                               |   |                          |               |                |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>55 649</b>                | <b>20 439</b>              | <b>16 287</b>                                  | <b>8 360</b>                    |  |                                   |   | <b>231 137</b>  |  | <b>108</b>                    |   | <b>12</b>                |               | <b>331 400</b> |
| Differences - Ecarts - Diferencias  |                              |                            |  |                                 |  |                                   |   |   |  |                               |   |                          |               |                |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |                                 |  |                                   |   |   |  |                               |   |                          |               |                |
| Electricity - Électricité - Electrica   | - 55 649                     | - 20 439                   | - 16 287                                       | - 5 173                         |  |                                   |   | - 2 340   |  |                               |   |                          |               | - 3 341        |
| CHP - Cogénération - Cogeneración   |                              |                            |  |                                 |  |                                   |   |   |  |                               |   |                          |               | - 1 190        |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |  |                                   |   | - 102 052   |  |                               |   |                          |               | - 55 856       |
| Charcoal - Charbon - Carbón   |                              |                            |  |                                 |  |                                   |   | - 1 841   |  |                               |   |                          |               |                |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |  |                                 |  |                                   |   |   |  |                               |   |                          |               |                |
| Other - Autres - Otras  |                              |                            |  |                                 |  |                                   |   |   |  |                               |   |                          |               | - 3 536        |
| Own use - Consomm. propre - Uso propio  |                              |                            |  |                                 |  |                                   |   |   |  |                               |   |                          |               | - 17 263       |
| Distribution - Distribution - Distribución  |                              |                            |  |                                 |  |                                   |   |   |  |                               |   |                          |               |                |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |                                 |  |                                   |   |   |  |                               |   |                          |               |                |
| <b>Total - Total - Total</b>  |                              |                            |  | <b>3 187</b>                    |  |                                   |   | <b>124 903</b>  |  | <b>108</b>                    | <b>1 841</b>                            | <b>46 208</b>            | <b>73 827</b> | <b>250 074</b> |
| Industry - Industrie - Industria  |                              |                            |  |                                 |  |                                   |   | 26 028  |  | 108                           | 1 841                                   | 20 448                   |               | <b>48 426</b>  |
| Transport - Transport - Transporte  |                              |                            |  |                                 |  |                                   |   |   |  |                               |   |                          |               |                |
| Commerce - Commerce - Comercial   |                              |                            |  | 1116                            |  |                                   |   | 49 437  |  |                               |   |                          |               | <b>87 896</b>  |
| Residential - Résidentiel - Residencial   |                              |                            |  |                                 |  |                                   |   | 49 437  |  |                               |   |                          |               | <b>102 531</b> |
| Other - Autres - Otros  |                              |                            |  | 2 072                           |  |                                   |   |   |  |                               |   |                          |               | <b>11 221</b>  |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |                                 |  |                                   |   |   |  |                               |   |                          |               |                |
| <b>Total - Total - Total</b>  | <b>42 675</b>                | <b>15 674</b>              | <b>12 489</b>                                  | <b>5 211</b>                    |  |                                   |   | <b>125 785</b>  |  | <b>191</b>                    | <b>1 841</b>                            | <b>46 208</b>            |               | <b>250 074</b> |
| Electricity - Électricité - Electrica   | 42 675                       | 15 674                     | 12 489   | 2 024                           |  |                                   |   | 882   |  | 83                            |   |                          |               | <b>73 827</b>  |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |  |                                   |   |   |  |                               |   |                          |               |                |
| Direct use - Utilisation directe - Uso directo  |                              |                            |  | <b>3 187</b>                    |  |                                   |   | <b>124 903</b>  |  | <b>108</b>                    | <b>1 841</b>                            | <b>46 208</b>            |               | <b>176 247</b> |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |                                 |  |                                   |   |   |  |                               |   |                          |               |                |
| Electricity - Électricité - Electrica (in/en GWh)   | 15 458                       | 5 677                      | 4 524  | 733                             |  |                                   |   | 320   |  | 30                            |   |                          |               | <b>26 742</b>  |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |  |                                 |  |                                   |   |   |  |                               |   |                          |               |                |

| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                        |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total         |                |
|---|------------------------------|----------------------------|--|---------------------------------|--|-----------------------------------|---|---|--|-------------------------------|---|--------------------------|---------------|----------------|
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos                  | Biogas - Biogaz<br>- Biogás   |   |                          |               |                |
| <b>Primary energy - Énergie primaire - Energía primaria</b>   |                              |                            |  |                                 |  |                                   |   |   |  |                               |   |                          |               |                |
| Production - Production - Generación  | 52 726                       | 18 970                     | 16 173   | 8 361                           |  |                                   |   | 225 232   |  | 108                           |   | 2                        |               | 321 569        |
| Imports - Importations - Importaciones  |                              |                            |  |                                 | 31                                       |                                   |   |   |  |                               |   | - 1                      |               | 108            |
| Exports - Exportations - Exportaciones  |                              |                            |  |                                 |  |                                   |   |   |  |                               |   |                          |               | - 704          |
| Stock - Stocks - Inventario (+/-)   |                              |                            |  |                                 |  |                                   |   |   |  |                               |   |                          |               |                |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>52 726</b>                | <b>18 970</b>              | <b>16 173</b>                                  | <b>8 361</b>                    |  |                                   |   | <b>225 264</b>  |  | <b>108</b>                    |   | <b>1</b>                 |               | <b>320 973</b> |
| Differences - Ecarts - Diferencias  |                              |                            |  |                                 |  |                                   |   |   |  |                               |   |                          |               |                |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |                                 |  |                                   |   |   |  |                               |   |                          |               |                |
| Electricity - Électricité - Electrica   | - 52 726                     | - 18 970                   | - 16 173                                       | - 5 173                         |  |                                   |   | - 1 811   |  |                               |   |                          |               | - 3 341        |
| CHP - Cogénération - Cogeneración   |                              |                            |  |                                 |  |                                   |   |   |  |                               |   |                          |               | - 921          |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |  |                                   |   | - 101 315   |  |                               |   |                          |               | - 55 452       |
| Charcoal - Charbon - Carbón   |                              |                            |  |                                 |  |                                   |   | - 1 751   |  |                               |   |                          |               |                |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |  |                                 |  |                                   |   |   |  |                               |   |                          |               |                |
| Other - Autres - Otras  |                              |                            |  |                                 |  |                                   |   |   |  |                               |   |                          |               | - 3 690        |
| Own use - Consomm. propre - Uso propio  |                              |                            |  |                                 |  |                                   |   |   |  |                               |   |                          |               | - 18 016       |
| Distribution - Distribution - Distribución  |                              |                            |  |                                 |  |                                   |   |   |  |                               |   |                          |               |                |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |                                 |  |                                   |   |   |  |                               |   |                          |               |                |
| <b>Total - Total - Total</b>  |                              |                            |  | <b>3 187</b>                    |  |                                   |   | <b>120 387</b>  |  | <b>108</b>                    | <b>1 751</b>                            | <b>45 864</b>            | <b>68 148</b> | <b>239 445</b> |
| Industry - Industrie - Industria  |                              |                            |  |                                 |  |                                   |   | 20 137  |  | 108                           | 1 751                                   | 18 619                   |               | <b>40 614</b>  |
| Transport - Transport - Transporte  |                              |                            |  |                                 |  |                                   |   |   |  |                               |   |                          |               |                |
| Commerce - Commerce - Comercial   |                              |                            |  |                                 |  |                                   |   | 50 125  |  |                               |   |                          |               | <b>91 775</b>  |
| Residential - Résidentiel - Residencial   |                              |                            |  |                                 |  |                                   |   | 50 125  |  |                               |   |                          |               | <b>102 707</b> |
| Other - Autres - Otros  |                              |                            |  |                                 |  |                                   |   |   |  |                               |   |                          |               | <b>4 348</b>   |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |                                 |  |                                   |   |   |  |                               |   |                          |               |                |
| <b>Total - Total - Total</b>  | <b>39 267</b>                | <b>14 128</b>              | <b>12 044</b>                                  | <b>5 153</b>                    |  |                                   |   | <b>121 050</b>  |  | <b>188</b>                    | <b>1 751</b>                            | <b>45 864</b>            |               | <b>239 445</b> |
| Electricity - Électricité - Electrica   | 39 267                       | 14 128                     | 12 044   | 1 966                           |  |                                   |   | 663   |  | 80                            |   |                          |               | <b>68 148</b>  |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |  |                                   |   |   |  |                               |   |                          |               |                |
| Direct use - Utilisation directe - Uso directo  |                              |                            |  | <b>3 187</b>                    |  |                                   |   | <b>120 387</b>  |  | <b>108</b>                    | <b>1 751</b>                            | <b>45 864</b>            |               | <b>171 297</b> |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |                                 |  |                                   |   |   |  |                               |   |                          |               |                |
| Electricity - Électricité - Electrica (in/en GWh)   | 14 646                       | 5 269                      | 4 492  | 733                             |  |                                   |   | 247   |  | 30                            |   |                          |               | <b>25 418</b>  |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |  |                                 |  |                                   |   |   |  |                               |   |                          |               |                |

## El Salvador

## El Salvador

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina  | Wind<br>Éolienne<br>Éolica      | Solar - Solaire - Solar<br>Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primaires -<br>Biocombustibles primarios | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total         |
|---|-------------------------------|---------------------------------|---|---------------------------------|--|-----------------------------------|---|---|--|-------------------------------|---|--------------------------|---------------|
|   | Solids - Solides<br>- Sólidos | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás   |                                 |  |                                   |   |   |  |                               |   |                          |               |
| <b>Primary energy - Énergie primaire - Energía primaria</b>   |                               |                                 |   |                                 |  |                                   |   |   |  |                               |   |                          |               |
| Production - Production - Generación  | 8 073                         | 488                             | 4 475   |                                 | 5 693                                    |                                   | 3 206                                       | 19 976  |  | 406                           |   |                          | 42 317        |
| Imports - Importations - Importaciones  |                               |                                 |   |                                 |  |                                   |   |   |  |                               | 1 990                                   |                          | - 954         |
| Exports - Exportations - Exportaciones  |                               |                                 |   |                                 |  |                                   |   |   |  |                               |   |                          |               |
| Stock - Stocks - Inventario (+/-)   |                               |                                 |   |                                 |  |                                   |   |   |  |                               |   |                          |               |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>8 073</b>                  | <b>488</b>                      | <b>4 475</b>  |                                 | <b>5 693</b>                             |                                   | <b>3 206</b>                                | <b>19 976</b>   |  | <b>406</b>                    |   |                          | <b>43 353</b> |
| <i>Differences - Ecarts - Diferencias</i>   |                               |                                 |   |                                 |  |                                   |   | <i>4 510</i>  |  |                               |   |                          | <i>4 063</i>  |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                               |                                 |   |                                 |  |                                   |   |   |  |                               |   |                          |               |
| Electricity - Électricité - Electrica   | - 8 073                       | - 488                           | - 4 475   |                                 | - 5 693                                  |                                   | - 3 206                                     | - 698   |  | - 406                         |   | 21 663                   | - 1 376       |
| CHP - Cogénération - Cogeneración   |                               |                                 |   |                                 |  |                                   |   | - 14 502  |  |                               |   |                          | - 14 502      |
| Heat - Chaleur - Calor  |                               |                                 |   |                                 |  |                                   |   | - 17  |  |                               | 6                                       |                          | - 11          |
| Charcoal - Charbon - Carbón   |                               |                                 |   |                                 |  |                                   |   |   |  |                               |   |                          |               |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                               |                                 |   |                                 |  |                                   |   |   |  |                               | - 726                                   |                          | - 726         |
| Other - Autres - Otras  |                               |                                 |   |                                 |  |                                   |   |   |  |                               | - 2 212                                 |                          | - 2 212       |
| Own use - Consomm. propre - Uso propio  |                               |                                 |   |                                 |  |                                   |   |   |  |                               |   |                          |               |
| Distribution - Distribution - Distribución  |                               |                                 |   |                                 |  |                                   |   |   |  |                               |   |                          |               |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                               |                                 |   |                                 |  |                                   |   |   |  |                               |   |                          |               |
| <b>Total - Total - Total</b>  |                               |                                 |   |                                 |  |                                   |   | <b>9 270</b>  |  |                               | <b>6</b>                                | <b>18 988</b>            | <b>28 263</b> |
| Industry - Industrie - Industria  |                               |                                 |   |                                 |  |                                   |   |   |  |                               | 6 348                                   | 1                        | 6 348         |
| Transport - Transport - Transporte  |                               |                                 |   |                                 |  |                                   |   |   |  |                               | 5 798                                   |                          | 5 798         |
| Commerce - Commerce - Comercial   |                               |                                 |   |                                 |  |                                   |   |   |  |                               | 6 694                                   |                          | 15 970        |
| Residential - Résidentiel - Residencial   |                               |                                 |   |                                 |  |                                   |   |   |  |                               | 146                                     |                          | 146           |
| Other - Autres - Otros  |                               |                                 |   |                                 |  |                                   |   |   |  |                               |   |                          |               |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                               |                                 |   |                                 |  |                                   |   |   |  |                               |   |                          |               |
| <b>Total - Total - Total</b>  | <b>7 076</b>                  | <b>428</b>                      | <b>3 922</b>  |                                 | <b>4 990</b>                             |                                   |   | <b>11 763</b>   |  | <b>78</b>                     | <b>6</b>                                | <b>18 988</b>            | <b>28 263</b> |
| Electricity - Électricité - Electrica   | 7 076                         | 428                             | 3 922   |                                 | 4 990                                    |                                   |   | 2 494   |  | 78                            |   |                          | 18 988        |
| Heat - Chaleur - Calor  |                               |                                 |   |                                 |  |                                   |   |   |  |                               | 6                                       |                          | 9 276         |
| Direct use - Utilisation directe - Uso directo  |                               |                                 |   |                                 |  |                                   |   |   |  |                               |   |                          |               |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                               |                                 |   |                                 |  |                                   |   |   |  |                               |   |                          |               |
| Electricity - Électricité - Electrica (in/en GWh)   | 2 242                         | 136                             | 1 243   |                                 | 1 581                                    |                                   |   | 790   |  | 25                            |   |                          | 6 017         |
| Heat - Chaleur - Calor (in/en TJ)   |                               |                                 |   |                                 |  |                                   |   |   |  |                               |   |                          |               |

| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina  | Wind<br>Éolienne<br>Éolica      | Solar - Solaire - Solar<br>Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primaires -<br>Biocombustibles primarios | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total         |
|---|-------------------------------|---------------------------------|---|---------------------------------|--|-----------------------------------|---|---|--|-------------------------------|---|--------------------------|---------------|
|   | Solids - Solides<br>- Sólidos | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás   |                                 |  |                                   |   |   |  |                               |   |                          |               |
| <b>Primary energy - Énergie primaire - Energía primaria</b>   |                               |                                 |   |                                 |  |                                   |   |   |  |                               |   |                          |               |
| Production - Production - Generación  | 6 571                         | 474                             | 6 088   |                                 | 5 613                                    |                                   | 3 189                                       | 21 115  |  | 382                           |   |                          | 43 433        |
| Imports - Importations - Importaciones  |                               |                                 |   |                                 |  |                                   |   |   |  |                               | 4 081                                   | - 105                    | - 105         |
| Exports - Exportations - Exportaciones  |                               |                                 |   |                                 |  |                                   |   |   |  |                               |   |                          |               |
| Stock - Stocks - Inventario (+/-)   |                               |                                 |   |                                 |  |                                   |   |   |  |                               |   |                          |               |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>6 571</b>                  | <b>474</b>                      | <b>6 088</b>  |                                 | <b>5 613</b>                             |                                   | <b>3 189</b>                                | <b>21 115</b>   |  | <b>382</b>                    |   |                          | <b>47 409</b> |
| <i>Differences - Ecarts - Diferencias</i>   |                               |                                 |   |                                 |  |                                   |   |   |  |                               |   |                          | <b>- 72</b>   |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                               |                                 |   |                                 |  |                                   |   |   |  |                               |   |                          |               |
| Electricity - Électricité - Electrica   | - 6 571                       | - 474                           | - 6 088   |                                 | - 5 613                                  |                                   | - 3 189                                     | - 698   |  | - 382                         |   | 22 000                   | - 1 015       |
| CHP - Cogénération - Cogeneración   |                               |                                 |   |                                 |  |                                   |   | - 14 715  |  |                               |   |                          | - 14 715      |
| Heat - Chaleur - Calor  |                               |                                 |   |                                 |  |                                   |   | - 16  |  | 6                             |   |                          | - 10          |
| Charcoal - Charbon - Carbón   |                               |                                 |   |                                 |  |                                   |   |   |  |                               |   |                          |               |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                               |                                 |   |                                 |  |                                   |   |   |  |                               | - 734                                   |                          | - 734         |
| Other - Autres - Otras  |                               |                                 |   |                                 |  |                                   |   |   |  |                               | - 2 880                                 |                          | - 2 880       |
| Own use - Consomm. propre - Uso propio  |                               |                                 |   |                                 |  |                                   |   |   |  |                               |   |                          |               |
| Distribution - Distribution - Distribución  |                               |                                 |   |                                 |  |                                   |   |   |  |                               |   |                          |               |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                               |                                 |   |                                 |  |                                   |   |   |  |                               |   |                          |               |
| <b>Total - Total - Total</b>  |                               |                                 |   |                                 |  |                                   |   | <b>5 686</b>  |  |                               | <b>6</b>                                | <b>20 369</b>            | <b>26 061</b> |
| Industry - Industrie - Industria  |                               |                                 |   |                                 |  |                                   |   |   |  |                               | 5 967                                   | 0                        | 5 967         |
| Transport - Transport - Transporte  |                               |                                 |   |                                 |  |                                   |   |   |  |                               | 6 990                                   |                          | 6 990         |
| Commerce - Commerce - Comercial   |                               |                                 |   |                                 |  |                                   |   |   |  |                               | 7 245                                   |                          | 12 937        |
| Residential - Résidentiel - Residencial   |                               |                                 |   |                                 |  |                                   |   |   |  |                               | 167                                     |                          | 167           |
| Other - Autres - Otros  |                               |                                 |   |                                 |  |                                   |   |   |  |                               |   |                          |               |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                               |                                 |   |                                 |  |                                   |   |   |  |                               |   |                          |               |
| <b>Total - Total - Total</b>  | <b>6 083</b>                  | <b>439</b>                      | <b>5 637</b>  |                                 | <b>5 197</b>                             |                                   |   | <b>8 621</b>  |  | <b>78</b>                     | <b>6</b>                                | <b>20 369</b>            | <b>26 061</b> |
| Electricity - Électricité - Electrica   | 6 083                         | 439                             | 5 637   |                                 | 5 197                                    |                                   |   | 2 935   |  | 78                            |   |                          | 20 369        |
| Heat - Chaleur - Calor  |                               |                                 |   |                                 |  |                                   |   |   |  |                               | 6                                       |                          | 5 692         |
| Direct use - Utilisation directe - Uso directo  |                               |                                 |   |                                 |  |                                   |   |   |  |                               |   |                          |               |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                               |                                 |   |                                 |  |                                   |   |   |  |                               |   |                          |               |
| Electricity - Électricité - Electrica (in/en GWh)   | 1 825                         | 132                             | 1 691   |                                 | 1 559                                    |                                   |   | 881   |  | 23                            |   |                          | 6 111         |
| Heat - Chaleur - Calor (in/en TJ)   |                               |                                 |   |                                 |  |                                   |   |   |  |                               |   |                          |               |

## Equatorial Guinea

## Equatorial Guinea

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina                                 | Wind<br>Eoliennes<br>Éolica | Solar - Solaire - Solar                        |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primaires -<br>Biocombustibles primarios |                                 |                             | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total        |
|---|--|-----------------------------|--|---------------------------------|--|-----------------------------------|---|---|---------------------------------|-----------------------------|--|-------------------------------|---|--------------------------|--------------|
|   |  |                             | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás |  |                               |   |                          |              |
|   | <b>Primary energy - Énergie primaire - Energía primaaria</b> |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |              |
| Production - Production - Generación  | 457  |                             | 0  |                                 |  |                                   |   | 5 069   |                                 |                             |  | 0                             |   |                          | <b>5 526</b> |
| Imports - Importations - Importaciones  |  |                             |  |                                 |  |                                   |   |   |                                 |                             | - 1  |                               |   | <b>0</b>                 | <b>- 1</b>   |
| Exports - Exportations - Exportaciones  |  |                             |  |                                 |  |                                   |   |   |                                 |                             | - 1  |                               |   | <b>5 526</b>             | <b>- 0</b>   |
| Stock - Stocks - Inventario (+/-)   |  |                             |  |                                 |  |                                   |   |   |                                 |                             | - 0  |                               |   |                          |              |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>457</b>   |                             | <b>0</b>                                       |                                 |  |                                   |   | <b>5 069</b>  |                                 |                             |  | <b>- 1</b>                    |   |                          | <b>5 526</b> |
| Differences - Ecarts - Diferencias  |  |                             |  |                                 |  |                                   |   |   |                                 |                             | - 0  |                               |   |                          |              |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |  |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |              |
| Electricity - Électricité - Electrica   | - 457  |                             | - 0  |                                 |  |                                   |   |   |                                 |                             |  |                               |   | 457                      |              |
| CHP - Cogénération - Cogeneración   |  |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |              |
| Heat - Chaleur - Calor  |  |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |              |
| Charcoal - Charbon - Carbón   |  |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |              |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |  |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |              |
| Other - Autres - Otras  |  |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |              |
| Own use - Consomm. propre - Uso propio  |  |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |              |
| Distribution - Distribution - Distribución  |  |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |              |
| <b>Final consumption - Consommation finale - Consumo final</b>  |  |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |              |
| <b>Total - Total - Total</b>  |  |                             |  |                                 |  |                                   |   | <b>4 258</b>  |                                 |                             |  |                               |   | <b>366</b>               | <b>457</b>   |
| Industry - Industrie - Industria  |  |                             |  |                                 |  |                                   |   |   |                                 |                             |  | 181                           |   |                          | <b>5 082</b> |
| Transport - Transport - Transporte  |  |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |              |
| Commerce - Commerce - Comercial   |  |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          | <b>82</b>    |
| Residential - Résidentiel - Residencial   |  |                             |  |                                 |  |                                   |   |   |                                 |                             |  | 11                            |   |                          | <b>4 807</b> |
| Other - Autres - Otros  |  |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |              |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |  |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |              |
| <b>Total - Total - Total</b>  | <b>457</b>   |                             | <b>0</b>                                       |                                 |  |                                   |   | <b>4 258</b>  |                                 |                             |  |                               |   | <b>366</b>               | <b>457</b>   |
| Electricity - Électricité - Electrica   | 457  |                             | 0  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          | <b>4 625</b> |
| Heat - Chaleur - Calor  |  |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |              |
| Direct use - Utilisation directe - Uso directo  |  |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |              |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |  |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |              |
| Electricity - Électricité - Electrica (in/en GWh)   | 127  |                             | 0  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          | <b>127</b>   |
| Heat - Chaleur - Calor (in/en TJ)   |  |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |              |
| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina                                 | Wind<br>Eoliennes<br>Éolica | Solar - Solaire - Solar                        |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primaires -<br>Biocombustibles primarios |                                 |                             | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total        |
|   |  |                             | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos            |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás     |                             |  |                               |   |                          |              |
|   | <b>Primary energy - Énergie primaire - Energía primaaria</b> |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |              |
| Production - Production - Generación  | 457  |                             | 1  |                                 |  |                                   |   | 5 069   |                                 |                             |  | 1                             |   |                          | <b>5 527</b> |
| Imports - Importations - Importaciones  |  |                             |  |                                 |  |                                   |   |   |                                 |                             | - 1  |                               |   | <b>1</b>                 | <b>- 1</b>   |
| Exports - Exportations - Exportaciones  |  |                             |  |                                 |  |                                   |   |   |                                 |                             | - 0  |                               |   | <b>5 527</b>             | <b>- 0</b>   |
| Stock - Stocks - Inventario (+/-)   |  |                             |  |                                 |  |                                   |   |   |                                 |                             | - 0  |                               |   |                          |              |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>457</b>   |                             | <b>1</b>                                       |                                 |  |                                   |   | <b>5 069</b>  |                                 |                             |  |                               |   |                          |              |
| Differences - Ecarts - Diferencias  |  |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |              |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |  |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |              |
| Electricity - Électricité - Electrica   | - 457  |                             | - 1  |                                 |  |                                   |   |   |                                 |                             |  |                               |   | 458                      |              |
| CHP - Cogénération - Cogeneración   |  |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |              |
| Heat - Chaleur - Calor  |  |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |              |
| Charcoal - Charbon - Carbón   |  |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |              |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |  |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |              |
| Other - Autres - Otras  |  |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |              |
| Own use - Consomm. propre - Uso propio  |  |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |              |
| Distribution - Distribution - Distribución  |  |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |              |
| <b>Final consumption - Consommation finale - Consumo final</b>  |  |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |              |
| <b>Total - Total - Total</b>  |  |                             |  |                                 |  |                                   |   | <b>4 274</b>  |                                 |                             |  |                               |   | <b>359</b>               | <b>458</b>   |
| Industry - Industrie - Industria  |  |                             |  |                                 |  |                                   |   |   |                                 |                             | 179  |                               |   |                          | <b>5 092</b> |
| Transport - Transport - Transporte  |  |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          | <b>179</b>   |
| Commerce - Commerce - Comercial   |  |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |              |
| Residential - Résidentiel - Residencial   |  |                             |  |                                 |  |                                   |   |   |                                 |                             |  | 96                            |   |                          | <b>96</b>    |
| Other - Autres - Otros  |  |                             |  |                                 |  |                                   |   |   |                                 |                             |  | 11                            |   |                          | <b>4 806</b> |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |  |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |              |
| <b>Total - Total - Total</b>  | <b>457</b>   |                             | <b>1</b>                                       |                                 |  |                                   |   | <b>4 274</b>  |                                 |                             |  |                               |   | <b>359</b>               | <b>458</b>   |
| Electricity - Électricité - Electrica   | 457  |                             | 1  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          | <b>458</b>   |
| Heat - Chaleur - Calor  |  |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |              |
| Direct use - Utilisation directe - Uso directo  |  |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          | <b>4 634</b> |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |  |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |              |
| Electricity - Électricité - Electrica (in/en GWh)   | 127  |                             | 0  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          | <b>127</b>   |
| Heat - Chaleur - Calor (in/en TJ)   |  |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |              |

Eritrea

Eritrea

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Eoliennes<br>Éolica | Solar - Solaire - Solar                               |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica  | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                             |  | Pellets/briq.<br>Granules/briq.<br>Pellets/briq.  | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total         |  |
|---|------------------------------|-----------------------------|---|---------------------------------|-------------------------------|---|-----------------------------------|---|---|-----------------------------|--|---|-------------------------------|---|--------------------------|---------------|--|
|   |                              |                             | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |   |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás |  |   |                               |   |                          |               |  |
|   |                              |                             | Primary energy - Énergie primaire - Energía primaaria |                                 |                               |   |                                   |   | Primary energy - Énergie primaire - Energía primaaria                       |                             |  |   |                               |   |                          |               |  |
| Production - Production - Generación  |                              |                             | 5   | 171                             |                               |   |                                   |   | 11 346  |                             |  |   |                               |   |                          | 11 522        |  |
| Imports - Importations - Importaciones  |                              |                             |   |                                 |                               |   |                                   |   |   |                             |  |   |                               |   |                          |               |  |
| Exports - Exportations - Exportaciones  |                              |                             |   |                                 |                               |   |                                   |   |   |                             |  |   |                               |   |                          |               |  |
| Stock - Stocks - Inventario (+/-)   |                              |                             |   |                                 |                               |   |                                   |   |   |                             |  |   |                               |   |                          |               |  |
| <b>Supply - Approvisionnement - Oferta</b>  |                              |                             | <b>5</b>  | <b>171</b>                      |                               |   |                                   |   | <b>11 346</b>   |                             |  |   |                               |   |                          | <b>11 522</b> |  |
| Differences - Ecarts - Diferencias  |                              |                             |   |                                 |                               |   |                                   |   |   |                             |  |   |                               |   |                          | - 21          |  |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                             |   |                                 |                               | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                                   |   |   |                             |  | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                               |   |                          |               |  |
| Electricity - Électricité - Electrica   |                              |                             | - 5   | - 171                           |                               |   |                                   |   | - 9 662   |                             |  |   |                               |   |                          | - 5 288       |  |
| CHP - Cogénération - Cogeneración   |                              |                             |   |                                 |                               |   |                                   |   |   |                             |  |   |                               |   |                          |               |  |
| Heat - Chaleur - Calor  |                              |                             |   |                                 |                               |   |                                   |   |   |                             |  |   |                               |   |                          |               |  |
| Charcoal - Charbon - Carbón   |                              |                             |   |                                 |                               |   |                                   |   |   |                             |  |   |                               |   |                          |               |  |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                             |   |                                 |                               |   |                                   |   |   |                             |  |   |                               |   |                          |               |  |
| Other - Autres - Otras  |                              |                             |   |                                 |                               |   |                                   |   |   |                             |  |   |                               |   |                          |               |  |
| Own use - Consomm. propre - Uso propio  |                              |                             |   |                                 |                               |   |                                   |   |   |                             |  |   |                               |   |                          |               |  |
| Distribution - Distribution - Distribución  |                              |                             |   |                                 |                               |   |                                   |   |   |                             |  |   |                               |   |                          |               |  |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                             |   |                                 |                               | <b>Final consumption - Consommation finale - Consumo final</b>  |                                   |   |   |                             |  | <b>Final consumption - Consommation finale - Consumo final</b>  |                               |   |                          |               |  |
| <b>Total - Total - Total</b>  |                              |                             |   |                                 |                               |   |                                   |   | <b>1 684</b>  |                             |  |   | <b>4 374</b>                  | <b>155</b>                              |                          | <b>6 213</b>  |  |
| Industry - Industrie - Industria  |                              |                             |   |                                 |                               |   |                                   |   | 119   |                             |  |   | 105                           | 45                                      |                          | 270           |  |
| Transport - Transport - Transporte  |                              |                             |   |                                 |                               |   |                                   |   | 1 565   |                             |  |   | 4 268                         | 75                                      |                          | 5 908         |  |
| Commerce - Commerce - Comercial   |                              |                             |   |                                 |                               |   |                                   |   |   |                             |  |   |                               |   |                          |               |  |
| Residential - Résidentiel - Residencial   |                              |                             |   |                                 |                               |   |                                   |   |   |                             |  |   |                               |   |                          |               |  |
| Other - Autres - Otros  |                              |                             |   |                                 |                               |   |                                   |   |   |                             |  |   |                               |   |                          |               |  |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                             |   |                                 |                               | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                                   |   |   |                             |  | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                               |   |                          |               |  |
| <b>Total - Total - Total</b>  |                              |                             | <b>5</b>  | <b>151</b>                      |                               |   |                                   |   | <b>1 684</b>  |                             |  |   | <b>4 374</b>                  | <b>155</b>                              |                          | <b>6 213</b>  |  |
| Electricity - Électricité - Electrica   |                              |                             | 5   | 151                             |                               |   |                                   |   | 1 684   |                             |  |   | 4 374                         |   |                          | 6 058         |  |
| Heat - Chaleur - Calor  |                              |                             |   |                                 |                               |   |                                   |   |   |                             |  |   |                               |   |                          |               |  |
| Direct use - Utilisation directe - Uso directo  |                              |                             |   |                                 |                               |   |                                   |   |   |                             |  |   |                               |   |                          |               |  |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                             |   |                                 |                               | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                                   |   |   |                             |  | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                               |   |                          |               |  |
| Electricity - Électricité - Electrica (in/en GWh)   |                              |                             | 1   | 47                              |                               |   |                                   |   |   |                             |  |   |                               |   |                          | 49            |  |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                             |   |                                 |                               |   |                                   |   |   |                             |  |   |                               |   |                          |               |  |
| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Eoliennes<br>Éolica | Solar - Solaire - Solar                               |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica  | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                             |  | Pellets/briq.<br>Granules/briq.<br>Pellets/briq.  | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total         |  |
|   |                              |                             | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |   |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás |  |   |                               |   |                          |               |  |
|   |                              |                             | Primary energy - Énergie primaire - Energía primaaria |                                 |                               |   |                                   |   | Primary energy - Énergie primaire - Energía primaaria                       |                             |  |   |                               |   |                          |               |  |
| Production - Production - Generación  |                              |                             | 5   | 173                             |                               |   |                                   |   | 11 346  |                             |  |   |                               |   |                          | 11 524        |  |
| Imports - Importations - Importaciones  |                              |                             |   |                                 |                               |   |                                   |   |   |                             |  |   |                               |   |                          |               |  |
| Exports - Exportations - Exportaciones  |                              |                             |   |                                 |                               |   |                                   |   |   |                             |  |   |                               |   |                          |               |  |
| Stock - Stocks - Inventario (+/-)   |                              |                             |   |                                 |                               |   |                                   |   |   |                             |  |   |                               |   |                          |               |  |
| <b>Supply - Approvisionnement - Oferta</b>  |                              |                             | <b>5</b>  | <b>173</b>                      |                               |   |                                   |   | <b>11 346</b>   |                             |  |   |                               |   |                          | <b>11 524</b> |  |
| Differences - Ecarts - Diferencias  |                              |                             |   |                                 |                               |   |                                   |   |   |                             |  |   |                               |   |                          | - 21          |  |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                             |   |                                 |                               | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                                   |   |   |                             |  | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                               |   |                          |               |  |
| Electricity - Électricité - Electrica   |                              |                             | - 5   | - 173                           |                               |   |                                   |   | - 9 662   |                             |  |   |                               |   |                          | - 5 288       |  |
| CHP - Cogénération - Cogeneración   |                              |                             |   |                                 |                               |   |                                   |   |   |                             |  |   |                               |   |                          |               |  |
| Heat - Chaleur - Calor  |                              |                             |   |                                 |                               |   |                                   |   |   |                             |  |   |                               |   |                          |               |  |
| Charcoal - Charbon - Carbón   |                              |                             |   |                                 |                               |   |                                   |   |   |                             |  |   |                               |   |                          |               |  |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                             |   |                                 |                               |   |                                   |   |   |                             |  |   |                               |   |                          |               |  |
| Other - Autres - Otras  |                              |                             |   |                                 |                               |   |                                   |   |   |                             |  |   |                               |   |                          |               |  |
| Own use - Consomm. propre - Uso propio  |                              |                             |   |                                 |                               |   |                                   |   |   |                             |  |   |                               |   |                          |               |  |
| Distribution - Distribution - Distribución  |                              |                             |   |                                 |                               |   |                                   |   |   |                             |  |   |                               |   |                          |               |  |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                             |   |                                 |                               | <b>Final consumption - Consommation finale - Consumo final</b>  |                                   |   |   |                             |  | <b>Final consumption - Consommation finale - Consumo final</b>  |                               |   |                          |               |  |
| <b>Total - Total - Total</b>  |                              |                             |   |                                 |                               |   |                                   |   | <b>1 684</b>  |                             |  |   | <b>4 374</b>                  | <b>157</b>                              |                          | <b>6 215</b>  |  |
| Industry - Industrie - Industria  |                              |                             |   |                                 |                               |   |                                   |   | 119   |                             |  |   | 106                           | 49                                      |                          | 274           |  |
| Transport - Transport - Transporte  |                              |                             |   |                                 |                               |   |                                   |   | 1 565   |                             |  |   | 4 268                         | 67                                      |                          | 5 900         |  |
| Commerce - Commerce - Comercial   |                              |                             |   |                                 |                               |   |                                   |   |   |                             |  |   |                               |   |                          |               |  |
| Residential - Résidentiel - Residencial   |                              |                             |   |                                 |                               |   |                                   |   |   |                             |  |   |                               |   |                          |               |  |
| Other - Autres - Otros  |                              |                             |   |                                 |                               |   |                                   |   |   |                             |  |   |                               |   |                          |               |  |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                             |   |                                 |                               | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                                   |   |   |                             |  | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                               |   |                          |               |  |
| <b>Total - Total - Total</b>  |                              |                             | <b>5</b>  | <b>152</b>                      |                               |   |                                   |   | <b>1 684</b>  |                             |  |   | <b>4 374</b>                  | <b>157</b>                              |                          | <b>6 215</b>  |  |
| Electricity - Électricité - Electrica   |                              |                             | 5   | 152                             |                               |   |                                   |   | 1 684   |                             |  |   | 4 374                         |   |                          | 6 058         |  |
| Heat - Chaleur - Calor  |                              |                             |   |                                 |                               |   |                                   |   |   |                             |  |   |                               |   |                          |               |  |
| Direct use - Utilisation directe - Uso directo  |                              |                             |   |                                 |                               |   |                                   |   |   |                             |  |   |                               |   |                          |               |  |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                             |   |                                 |                               | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                                   |   |   |                             |  | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                               |   |                          |               |  |
| Electricity - Électricité - Electrica (in/en GWh)   |                              |                             | 1   | 48                              |                               |   |                                   |   |   |                             |  |   |                               |   |                          | 50            |  |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                             |   |                                 |                               |   |                                   |   |   |                             |  |   |                               |   |                          |               |  |

## Estonia

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                               |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                             |                                    | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbon | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total   |
|---|------------------------------|----------------------------|---|---------------------------------|-------------------------------|--|-----------------------------------|---|---|-----------------------------|------------------------------------|--|-------------------------------|---|--------------------------|---|
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás |                                    |  |                               |   |                          |   |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaaria |                                 |                               |  |                                   |   | Primary energy - Énergie primaire - Energía primaaria                       |                             |                                    |  |                               |   |                          |   |
| Production - Production - Generación  | 83                           | 2 405                      | 2 146   |                                 |                               |  |                                   | 919   | 73 936<br>1451<br>- 1913<br>- 1045  | 1173                        | 761<br>- 67<br>694<br>67           | - 24 571   |                               | 8 264<br>- 7 101                        |                          | 80 249<br>10 889<br>- 33 585<br>- 1111<br>56 442<br>305             |
| Imports - Importations - Importaciones  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |                                    |  |                               |   |                          |   |
| Exports - Exportations - Exportaciones  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |                                    |  |                               |   |                          |   |
| Stock - Stocks - Inventario (+/-)   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |                                    |  |                               |   |                          |   |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>83</b>                    | <b>2 405</b>               | <b>2 146</b>  |                                 |                               |  |                                   | <b>919</b>                                  | <b>72 429<br/>0</b>   | <b>1173</b>                 | <b>761<br/>- 67<br/>694<br/>67</b> | <b>- 24 571</b>                                  |                               | <b>1163<br/>1</b>                       |                          | <b>80 249<br/>10 889<br/>- 33 585<br/>- 1111<br/>56 442<br/>305</b> |
| Differences - Ecarts - Diferencias  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |                                    |  |                               |   |                          |   |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |                                    |  |                               |   |                          |   |
| Electricity - Électricité - Electrica   | - 83                         | - 2 405                    | - 2 146   |                                 |                               |  |                                   | - 161                                       | - 5 688<br>- 17 225<br>- 6 295  |                             | - 455<br>- 10                      |  |                               | 6 698<br>3 584                          | 9 952<br>5 869           | - 3 784<br>- 4 902<br>- 436   |
| CHP - Cogénération - Cogeneración   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |                                    |  |                               |   |                          |   |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |                                    |  |                               |   |                          |   |
| Charcoal - Charbon - Carbón   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |                                    |  |                               |   |                          |   |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |                                    |  |                               |   |                          |   |
| Other - Autres - Otras  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |                                    |  |                               |   |                          |   |
| Own use - Consomm. propre - Uso propio  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |                                    |  |                               |   |                          |   |
| Distribution - Distribution - Distribución  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |                                    |  |                               |   |                          |   |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |                                    |  |                               |   |                          |   |
| Total - Total - Total   |                              |                            |   |                                 |                               |  |                                   |   | 18 643<br>831   | 1173                        | 296<br>21                          |  |                               | 8 217<br>2 403                          | 13 925<br>1 179          | 42 254<br>4 433   |
| Industry - Industrie - Industria  |                              |                            |   |                                 |                               |  |                                   |   |   | 1173                        | 212                                |  |                               | 37                                      |                          | 1 423   |
| Transport - Transport - Transporte  |                              |                            |   |                                 |                               |  |                                   |   |   |                             | 59                                 |  |                               | 3 343                                   | 3 380                    | 7 283   |
| Commerce - Commerce - Comercial   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |                                    |  |                               | 2 263                                   | 9 312                    | 28 678  |
| Residential - Résidentiel - Residencial   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |                                    |  |                               | 170                                     | 53                       | 437   |
| Other - Autres - Otros  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |                                    |  |                               |   |                          |   |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |                                    |  |                               |   |                          |   |
| Total - Total - Total   | 66                           | 1 922                      | 1 715   |                                 |                               |  |                                   | 627   | 36 426  | 1173                        | 325                                |  |                               |   |                          | 42 254  |
| Electricity - Électricité - Electrica   | 66                           | 1 922                      | 1 715   |                                 |                               |  |                                   | 117   | 4 382   |                             | 16                                 |  |                               |   | 8 217                    |   |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |                               |  |                                   | 511   | 13 401  |                             | 13                                 |  |                               |   | 13 925                   |   |
| Direct use - Utilisation directe - Uso directo  |                              |                            |   |                                 |                               |  |                                   |   | 18 643  | 1173                        | 296                                |  |                               |   |                          | 20 112  |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |   |                                 |                               |  |                                   |   |   |                             |                                    |  |                               |   |                          |   |
| Electricity - Électricité - Electrica (in/en GWh)   | 23                           | 668                        | 596   |                                 |                               |  |                                   | 41  | 1 523   |                             | 6                                  |  |                               |   |                          | 2 856   |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |   |                                 |                               |  |                                   | 580   | 15 226  |                             | 15                                 |  |                               |   |                          | 15 821  |
| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                               |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                             |                                    | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbon | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total   |
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás |                                    |  |                               |   |                          |   |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaaria |                                 |                               |  |                                   |   | Primary energy - Énergie primaire - Energía primaaria                       |                             |                                    |  |                               |   |                          |   |
| Production - Production - Generación  | 83                           | 2 639                      | 1 273   |                                 |                               |  |                                   | 888   | 75 780<br>1917<br>- 4 474<br>1 962  | 1 912                       | 762                                | - 27 540   |                               | 10 547<br>- 6 765                       |                          | 81 426<br>14 433<br>- 38 780<br>1 962<br>59 041<br>277              |
| Imports - Importations - Importaciones  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |                                    |  |                               |   |                          |   |
| Exports - Exportations - Exportaciones  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |                                    |  |                               |   |                          |   |
| Stock - Stocks - Inventario (+/-)   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |                                    |  |                               |   |                          |   |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>83</b>                    | <b>2 639</b>               | <b>1 273</b>  |                                 |                               |  |                                   | <b>946</b>                                  | <b>75 185<br/>15</b>  | <b>1 912</b>                | <b>762</b>                         | <b>- 27 540</b>                                  |                               | <b>3 782<br/>50</b>                     |                          | <b>81 426<br/>14 433<br/>- 38 780<br/>1 962<br/>59 041<br/>277</b>  |
| Differences - Ecarts - Diferencias  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |                                    |  |                               |   |                          |   |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |                                    |  |                               |   |                          |   |
| Electricity - Électricité - Electrica   | - 83                         | - 2 639                    | - 1 273   |                                 |                               |  |                                   | - 194                                       | - 6 000<br>- 18 360<br>- 5 642  |                             | - 432<br>- 20                      |  |                               | 6 280<br>4 083                          | 10 547<br>4 150          | - 3 909<br>- 4 913<br>- 1 512                                       |
| CHP - Cogénération - Cogeneración   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |                                    |  |                               |   |                          |   |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |                                    |  |                               |   |                          |   |
| Charcoal - Charbon - Carbón   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |                                    |  |                               |   |                          |   |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |                                    |  |                               |   |                          |   |
| Other - Autres - Otras  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |                                    |  |                               |   |                          |   |
| Own use - Consomm. propre - Uso propio  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |                                    |  |                               |   |                          |   |
| Distribution - Distribution - Distribución  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |                                    |  |                               |   |                          |   |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |                                    |  |                               |   |                          |   |
| Total - Total - Total   |                              |                            |   |                                 |                               |  |                                   |   | 17 652<br>672   | 1 912                       | 310<br>39                          |  |                               | 11 340<br>3 178<br>43                   | 12 975<br>1 110          | 44 189<br>5 000   |
| Industry - Industrie - Industria  |                              |                            |   |                                 |                               |  |                                   |   |   | 1 912                       | 198                                |  |                               | 4 683                                   | 3 153                    | 2 153   |
| Transport - Transport - Transporte  |                              |                            |   |                                 |                               |  |                                   |   |   |                             | 73                                 |  |                               | 3 206                                   | 8 666                    | 8 419   |
| Commerce - Commerce - Comercial   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |                                    |  |                               | 229                                     | 45                       | 28 112  |
| Residential - Résidentiel - Residencial   |                              |                            |   |                                 |                               |  |                                   |   |   |                             | 0                                  |  |                               |   |                          | 504   |
| Other - Autres - Otros  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |                                    |  |                               |   |                          |   |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |                                    |  |                               |   |                          |   |
| Total - Total - Total   | 91                           | 2 888                      | 1 393   |                                 |                               |  |                                   | 751   | 36 722  | 1 912                       | 433                                |  |                               |   |                          | 44 189  |
| Electricity - Électricité - Electrica   | 91                           | 2 888                      | 1 393   |                                 |                               |  |                                   | 230   | 6 673   |                             | 65                                 |  |                               |   |                          | 11 340  |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |                               |  |                                   | 521   | 12 396  |                             | 58                                 |  |                               |   |                          | 12 975  |
| Direct use - Utilisation directe - Uso directo  |                              |                            |   |                                 |                               |  |                                   |   | 17 652  | 1 912                       | 310                                |  |                               |   |                          | 19 874  |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |   |                                 |                               |  |                                   |   |   |                             |                                    |  |                               |   |                          |   |
| Electricity - Électricité - Electrica (in/en GWh)   | 23                           | 733                        | 354   |                                 |                               |  |                                   | 58  | 1 694   |                             | 16                                 |  |                               |   |                          | 2 879   |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |   |                                 |                               |  |                                   | 590   | 14 042  |                             | 66                                 |  |                               |   |                          | 14 697  |

## Eswatini

## Eswatini

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                              |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios   |                             |  | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total          |
|---|------------------------------|----------------------------|--|---------------------------------|-------------------------------|--|-----------------------------------|---|---|-----------------------------|--|--|-------------------------------|---|--------------------------|----------------|
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica       | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás |  |  |                               |   |                          |                |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaria |                                 |                               |  |                                   |   | Primary energy - Énergie primaire - Energía primaria  |                             |  |  |                               |   |                          |                |
| Production - Production - Generación  | 1 069                        |                            | 0  |                                 |                               |  |                                   |   | 28 454  |                             |  |  |                               |   |                          | 29 523         |
| Imports - Importations - Importaciones  |                              |                            |  |                                 |                               |  |                                   |   | 7 348   |                             |  |  |                               |   |                          | 10 566         |
| Exports - Exportations - Exportaciones  |                              |                            |  |                                 |                               |  |                                   |   | - 10 994  |                             |  |  |                               |   |                          | - 11 007       |
| Stock - Stocks - Inventario (+/-)   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |                |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>1 069</b>                 |                            | <b>0</b>   |                                 |                               |  |                                   |   | <b>24 808</b>   |                             |  |  |                               |   |                          | <b>29 082</b>  |
| Differences - Ecarts - Diferencias  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          | <b>60</b>      |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |                                 |                               |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                             |  |  |                               |   |                          |                |
| Electricity - Électricité - Electrica   | - 1069                       |                            | - 0  |                                 |                               |  |                                   |   | - 1704  |                             |  |  |                               |   |                          | - 1 030        |
| CHP - Cogénération - Cogeneración   |                              |                            |  |                                 |                               |  |                                   |   |   | - 3 815                     |  |  |                               |   |                          | - 2 088        |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |                |
| Charcoal - Charbon - Carbón   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |                |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |                |
| Other - Autres - Otras  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |                |
| Own use - Consomm. propre - Uso propio  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |                |
| Distribution - Distribution - Distribución  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |                |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |                                 |                               |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                             |  |  |                               |   |                          |                |
| <b>Total - Total - Total</b>  |                              |                            |  |                                 |                               |  |                                   |   | <b>19 289</b>   |                             |  |  |                               |   |                          | <b>24 986</b>  |
| Industry - Industrie - Industria  |                              |                            |  |                                 |                               |  |                                   |   | 11 850  |                             |  |  |                               |   |                          | <b>13 057</b>  |
| Transport - Transport - Transporte  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |                |
| Commerce - Commerce - Comercial   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          | <b>471</b>     |
| Residential - Résidentiel - Residencial   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          | <b>10 727</b>  |
| Other - Autres - Otros  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          | <b>731</b>     |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |                                 |                               |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                             |  |  |                               |   |                          |                |
| <b>Total - Total - Total</b>  | <b>2 441</b>                 |                            |  | <b>1</b>                        |                               |  |                                   |   | <b>20 828</b>   |                             |  |  |                               |   |                          | <b>24 986</b>  |
| Electricity - Électricité - Electrica   | 2 441                        |                            |  | 1                               |                               |  |                                   |   | 1 539   |                             |  |  |                               |   |                          | <b>3 980</b>   |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |                               |  |                                   |   |   | 19 289                      |  |  |                               |   |                          | <b>21 006</b>  |
| Direct use - Utilisation directe - Uso directo  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |                |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |                                 |                               |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                             |  |  |                               |   |                          |                |
| Electricity - Électricité - Electrica (in/en GWh)   | 297                          |                            |  | 0                               |                               |  |                                   |   | 187   |                             |  |  |                               |   |                          | <b>484</b>     |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |                |
| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                              |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios   |                             |  | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total          |
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica       | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás |  |  |                               |   |                          |                |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaria |                                 |                               |  |                                   |   | Primary energy - Énergie primaire - Energía primaria  |                             |  |  |                               |   |                          |                |
| Production - Production - Generación  | 931                          |                            | 1  |                                 |                               |  |                                   |   | 28 316  |                             |  |  |                               |   |                          | <b>29 248</b>  |
| Imports - Importations - Importaciones  |                              |                            |  |                                 |                               |  |                                   |   | 6 867   |                             |  |  |                               |   |                          | <b>10 485</b>  |
| Exports - Exportations - Exportaciones  |                              |                            |  |                                 |                               |  |                                   |   | - 9 546   |                             |  |  |                               |   |                          | <b>- 9 559</b> |
| Stock - Stocks - Inventario (+/-)   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |                |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>931</b>                   |                            | <b>1</b>   |                                 |                               |  |                                   |   | <b>25 637</b>   |                             |  |  |                               |   |                          | <b>30 175</b>  |
| Differences - Ecarts - Diferencias  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          | <b>25</b>      |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |                                 |                               |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                             |  |  |                               |   |                          |                |
| Electricity - Électricité - Electrica   | - 931                        |                            | - 1  |                                 |                               |  |                                   |   | - 1 831   |                             |  |  |                               |   |                          | <b>- 1 099</b> |
| CHP - Cogénération - Cogeneración   |                              |                            |  |                                 |                               |  |                                   |   |   | - 3 739                     |  |  |                               |   |                          | <b>- 2 046</b> |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |                |
| Charcoal - Charbon - Carbón   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |                |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |                |
| Other - Autres - Otras  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |                |
| Own use - Consomm. propre - Uso propio  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |                |
| Distribution - Distribution - Distribución  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |                |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |                                 |                               |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                             |  |  |                               |   |                          |                |
| <b>Total - Total - Total</b>  |                              |                            |  |                                 |                               |  |                                   |   | <b>20 067</b>   |                             |  |  |                               |   |                          | <b>25 729</b>  |
| Industry - Industrie - Industria  |                              |                            |  |                                 |                               |  |                                   |   | 11 761  |                             |  |  |                               |   |                          | <b>12 931</b>  |
| Transport - Transport - Transporte  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |                |
| Commerce - Commerce - Comercial   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          | <b>484</b>     |
| Residential - Résidentiel - Residencial   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          | <b>11 512</b>  |
| Other - Autres - Otros  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          | <b>801</b>     |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |                                 |                               |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                             |  |  |                               |   |                          |                |
| <b>Total - Total - Total</b>  | <b>2 226</b>                 |                            |  | <b>1</b>                        |                               |  |                                   |   | <b>21 817</b>   |                             |  |  |                               |   |                          | <b>25 729</b>  |
| Electricity - Électricité - Electrica   | 2 226                        |                            |  | 1                               |                               |  |                                   |   | 1 750   |                             |  |  |                               |   |                          | <b>3 978</b>   |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |                               |  |                                   |   |   | 20 067                      |  |  |                               |   |                          | <b>21 751</b>  |
| Direct use - Utilisation directe - Uso directo  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |                |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |                                 |                               |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                             |  |  |                               |   |                          |                |
| Electricity - Électricité - Electrica (in/en GWh)   | 259                          |                            |  | 0                               |                               |  |                                   |   | 203   |                             |  |  |                               |   |                          | <b>462</b>     |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |                |

## Ethiopia

## Ethiopia

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Éolica | Solar - Solaire - Solar                        |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                                 |                              | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbon | Electricity<br>Électricité<br>Electricidad | Heat<br>Chaleur<br>Calor | Total         |
|---|------------------------------|----------------------------|--|---------------------------------|--|-----------------------------------|---|---|---------------------------------|------------------------------|--|-------------------------------|--|--------------------------|---------------|
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Bioegas - Biogaz<br>- Biogás |  |                               |  |                          |               |
| <b>Primary energy - Énergie primaire - Energía primaaria</b>  |                              |                            |  |                                 |  |                                   |   |   |                                 |                              |  |                               |  |                          |               |
| Production - Production - Generación  | 53 577                       | 2 018                      | 122  |                                 | 105                                      |                                   |   | 27 553  |                                 |                              |  | - 6 023                       |  | - 6 023                  | 83 375        |
| Imports - Importations - Importaciones  |                              |                            |  |                                 |  |                                   |   |   |                                 |                              |  |                               |  |                          | - 6 023       |
| Exports - Exportations - Exportaciones  |                              |                            |  |                                 |  |                                   |   |   |                                 |                              |  |                               |  |                          |               |
| Stock - Stocks - Inventario (+/-)   |                              |                            |  |                                 |  |                                   |   |   |                                 |                              |  |                               |  |                          |               |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>53 577</b>                | <b>2 018</b>               | <b>122</b>                                     |                                 | <b>105</b>                               |                                   |   | <b>27 553</b>   |                                 |                              |  | <b>- 6 023</b>                |  | <b>77 352</b>            |               |
| <i>Differences - Ecarts - Diferencias</i>   |                              |                            |  |                                 |  |                                   |   | <i>- 1</i>  |                                 |                              |  | <i>0</i>                      |  | <i>11</i>                | <i>10</i>     |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |                                 |  |                                   |   |   |                                 |                              |  |                               |  |                          |               |
| Electricity - Électricité - Electrica   | - 53 577                     | - 2 018                    | - 122  |                                 | - 105                                    |                                   |   | - 119   |                                 |                              |  | 55 822                        | 28   |                          | - 91          |
| CHP - Cogénération - Cogeneración   |                              |                            |  |                                 |  |                                   |   |   |                                 |                              |  |                               |  |                          |               |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |  |                                   |   | - 2 370   |                                 |                              |  | 1 637                         |  |                          | - 733         |
| Charcoal - Carbon - Carbon  |                              |                            |  |                                 |  |                                   |   |   |                                 |                              |  |                               |  |                          |               |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |  |                                 |  |                                   |   |   |                                 |                              |  |                               |  |                          |               |
| Other - Autres - Otras  |                              |                            |  |                                 |  |                                   |   |   |                                 |                              |  | - 209                         |  | - 209                    |               |
| Own use - Consomm. propre - Uso propio  |                              |                            |  |                                 |  |                                   |   |   |                                 |                              |  | - 10 980                      |  | - 10 980                 |               |
| Distribution - Distribution - Distribución  |                              |                            |  |                                 |  |                                   |   |   |                                 |                              |  |                               |  |                          |               |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |                                 |  |                                   |   |   |                                 |                              |  |                               |  |                          |               |
| <b>Total - Total - Total</b>  |                              |                            |  |                                 |  |                                   |   | <b>25 062</b>   |                                 |                              |  | <b>1 637</b>                  | <b>39 658</b>                              |                          | <b>66 357</b> |
| Industry - Industrie - Industria  |                              |                            |  |                                 |  |                                   |   | 1 328   |                                 |                              |  |                               | 9 209                                      |                          | 10 537        |
| Transport - Transport - Transporte  |                              |                            |  |                                 |  |                                   |   |   |                                 |                              |  |                               |  |                          |               |
| Commerce - Commerce - Comercial   |                              |                            |  |                                 |  |                                   |   | 194   |                                 |                              |  |                               | 8 730                                      |                          | 8 955         |
| Residential - Résidentiel - Residencial   |                              |                            |  |                                 |  |                                   |   | 23 540  |                                 |                              |  | 1 606                         | 21 586                                     |                          | 46 732        |
| Other - Autres - Otros  |                              |                            |  |                                 |  |                                   |   |   |                                 |                              |  |                               | 133  |                          | 133           |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |                                 |  |                                   |   |   |                                 |                              |  |                               |  |                          |               |
| <b>Total - Total - Total</b>  | <b>38 043</b>                | <b>1 433</b>               | <b>87</b>                                      |                                 | <b>75</b>                                |                                   |   | <b>25 082</b>   |                                 |                              |  | <b>1 637</b>                  |  |                          | <b>66 357</b> |
| Electricity - Électricité - Electrica   | 38 043                       | 1 433                      | 87   |                                 | 75                                       |                                   |   | 20  |                                 |                              |  |                               |  |                          | 39 658        |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |  |                                   |   |   |                                 |                              |  |                               |  |                          |               |
| Direct use - Utilisation directe - Uso directo  |                              |                            |  |                                 |  |                                   |   | 25 062  |                                 |                              |  |                               | 1 637                                      |                          | 26 699        |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |                                 |  |                                   |   |   |                                 |                              |  |                               |  |                          |               |
| Electricity - Électricité - Electrica (in/en GWh)   | 14 882                       | 561                        | 34   |                                 | 29                                       |                                   |   | 8   |                                 |                              |  |                               |  |                          | 15 514        |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |  |                                 |  |                                   |   |   |                                 |                              |  |                               |  |                          |               |

| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Éolica | Solar - Solaire - Solar                        |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                                 |                              | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbon | Electricity<br>Électricité<br>Electricidad | Heat<br>Chaleur<br>Calor | Total         |
|---|------------------------------|----------------------------|--|---------------------------------|--|-----------------------------------|---|---|---------------------------------|------------------------------|--|-------------------------------|--|--------------------------|---------------|
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Bioegas - Biogaz<br>- Biogás |  |                               |  |                          |               |
| <b>Primary energy - Énergie primaire - Energía primaaria</b>  |                              |                            |  |                                 |  |                                   |   |   |                                 |                              |  |                               |  |                          |               |
| Production - Production - Generación  | 53 794                       | 2 942                      | 122  |                                 | 105                                      |                                   |   | 27 553  |                                 |                              |  | - 5 893                       |  | - 5 893                  | 84 411        |
| Imports - Importations - Importaciones  |                              |                            |  |                                 |  |                                   |   |   |                                 |                              |  |                               |  |                          |               |
| Exports - Exportations - Exportaciones  |                              |                            |  |                                 |  |                                   |   |   |                                 |                              |  |                               |  |                          |               |
| Stock - Stocks - Inventario (+/-)   |                              |                            |  |                                 |  |                                   |   |   |                                 |                              |  |                               |  |                          |               |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>53 794</b>                | <b>2 942</b>               | <b>122</b>                                     |                                 | <b>105</b>                               |                                   |   | <b>27 553</b>   |                                 |                              |  | <b>- 5 893</b>                |  | <b>78 518</b>            |               |
| <i>Differences - Ecarts - Diferencias</i>   |                              |                            |  |                                 |  |                                   |   | <i>- 1</i>  |                                 |                              |  | <i>0</i>                      |  | <i>3</i>                 | <i>2</i>      |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |                                 |  |                                   |   |   |                                 |                              |  |                               |  |                          |               |
| Electricity - Électricité - Electrica   | - 53 794                     | - 2 942                    | - 122  |                                 | - 105                                    |                                   |   | - 119   |                                 |                              |  | 56 858                        | 59   |                          | - 61          |
| CHP - Cogénération - Cogeneración   |                              |                            |  |                                 |  |                                   |   |   |                                 |                              |  |                               |  |                          |               |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |  |                                   |   | - 2 370   |                                 |                              |  | 1 637                         |  |                          | - 733         |
| Charcoal - Carbon - Carbon  |                              |                            |  |                                 |  |                                   |   |   |                                 |                              |  |                               |  |                          |               |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |  |                                 |  |                                   |   |   |                                 |                              |  |                               |  |                          |               |
| Other - Autres - Otras  |                              |                            |  |                                 |  |                                   |   |   |                                 |                              |  | - 208                         |  | - 208                    |               |
| Own use - Consomm. propre - Uso propio  |                              |                            |  |                                 |  |                                   |   |   |                                 |                              |  | - 10 980                      |  | - 10 980                 |               |
| Distribution - Distribution - Distribución  |                              |                            |  |                                 |  |                                   |   |   |                                 |                              |  |                               |  |                          |               |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |                                 |  |                                   |   |   |                                 |                              |  |                               |  |                          |               |
| <b>Total - Total - Total</b>  |                              |                            |  |                                 |  |                                   |   | <b>25 062</b>   |                                 |                              |  | <b>1 637</b>                  | <b>39 780</b>                              |                          | <b>66 479</b> |
| Industry - Industrie - Industria  |                              |                            |  |                                 |  |                                   |   | 1 328   |                                 |                              |  |                               | 9 209                                      |                          | 10 538        |
| Transport - Transport - Transporte  |                              |                            |  |                                 |  |                                   |   |   |                                 |                              |  |                               |  |                          |               |
| Commerce - Commerce - Comercial   |                              |                            |  |                                 |  |                                   |   | 194   |                                 |                              |  |                               | 8 731                                      |                          | 8 955         |
| Residential - Résidentiel - Residencial   |                              |                            |  |                                 |  |                                   |   | 23 540  |                                 |                              |  | 1 606                         | 21 706                                     |                          | 46 852        |
| Other - Autres - Otros  |                              |                            |  |                                 |  |                                   |   |   |                                 |                              |  |                               | 134  |                          | 134           |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |                                 |  |                                   |   |   |                                 |                              |  |                               |  |                          |               |
| <b>Total - Total - Total</b>  | <b>37 597</b>                | <b>2 056</b>               | <b>85</b>                                      |                                 | <b>85</b>                                |                                   |   | <b>25 103</b>   |                                 |                              |  | <b>1 637</b>                  |  |                          | <b>66 479</b> |
| Electricity - Électricité - Electrica   | 37 597                       | 2 056                      | 85   |                                 | 85                                       |                                   |   | 41  |                                 |                              |  |                               |  |                          | 39 780        |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |  |                                   |   |   |                                 |                              |  |                               |  |                          |               |
| Direct use - Utilisation directe - Uso directo  |                              |                            |  |                                 |  |                                   |   | 25 062  |                                 |                              |  |                               | 1 637                                      |                          | 26 699        |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |                                 |  |                                   |   |   |                                 |                              |  |                               |  |                          |               |
| Electricity - Électricité - Electrica (in/en GWh)   | 14 943                       | 817                        | 34   |                                 |  |                                   |   | 16  |                                 |                              |  |                               |  |                          | 15 810        |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |  |                                 |  |                                   |   |   |                                 |                              |  |                               |  |                          |               |

## Falkland Islands (Malvinas)

## Falkland Islands (Malvinas)

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Eolienne<br>Eólica | Solar - Solaire - Solar                        |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                                 | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Carbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total     |
|---|------------------------------|----------------------------|--|---------------------------------|--|-----------------------------------|---|---|---------------------------------|--|------------------------------|---|--------------------------|-----------|
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos |  |                              |   |                          |           |
| <b>Primary energy - Énergie primaire - Energía primaria</b>   |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                              |   |                          |           |
| Production - Production - Generación  |                              |                            | 16   | 0                               |  |                                   |   |   | 11                              |  |                              |   |                          | 27        |
| Imports - Importations - Importaciones  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                              |   |                          |           |
| Exports - Exportations - Exportaciones  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                              |   |                          |           |
| Stock - Stocks - Inventario (+/-)   |                              |                            |  |                                 |  |                                   |   |   | 11                              |  |                              |   |                          |           |
| <b>Supply - Approvisionnement - Oferta</b>  |                              |                            | <b>16</b>                                      | <b>0</b>                        |  |                                   |   |   |                                 |  |                              |   |                          | <b>27</b> |
| Differences - Ecarts - Diferencias  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                              |   |                          |           |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                              |   |                          |           |
| Electricity - Électricité - Electrica   |                              |                            | - 16   | - 0                             |  |                                   |   |   |                                 |  |                              |   |                          | 0         |
| CHP - Cogénération - Cogeneración   |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                              |   |                          |           |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                              |   |                          |           |
| Charcoal - Carbon - Carbón  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                              |   |                          |           |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                              |   |                          |           |
| Other - Autres - Otras  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                              |   |                          |           |
| Own use - Consomm. propre - Uso propio  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                              |   |                          |           |
| Distribution - Distribution - Distribución  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                              |   |                          |           |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                              |   |                          |           |
| <b>Total - Total - Total</b>  |                              |                            |  |                                 |  |                                   |   |   | 2                               |  |                              |   |                          | 22        |
| Industry - Industrie - Industria  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                              |   |                          | 7         |
| Transport - Transport - Transporte  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                              |   |                          |           |
| Commerce - Commerce - Comercial   |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                              |   |                          |           |
| Residential - Résidentiel - Residencial   |                              |                            |  |                                 |  |                                   |   |   | 2                               |  |                              |   |                          | 9         |
| Other - Autres - Otros  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                              |   |                          | 7         |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                              |   |                          |           |
| <b>Total - Total - Total</b>  |                              |                            | <b>16</b>                                      | <b>0</b>                        |  |                                   |   |   | <b>2</b>                        |  |                              |   |                          | <b>22</b> |
| Electricity - Électricité - Electrica   |                              |                            | 16   | 0                               |  |                                   |   |   |                                 |  |                              |   |                          | 16        |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                              |   |                          |           |
| Direct use - Utilisation directe - Uso directo  |                              |                            |  |                                 |  |                                   |   |   | 2                               |  |                              |   |                          | 6         |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                              |   |                          |           |
| Electricity - Électricité - Electrica (in/en GWh)   |                              |                            | 5  | 0                               |  |                                   |   |   |                                 |  |                              |   |                          | 5         |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                              |   |                          |           |

| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Eolienne<br>Eólica | Solar - Solaire - Solar                        |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                                 | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Carbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total     |
|---|------------------------------|----------------------------|--|---------------------------------|--|-----------------------------------|---|---|---------------------------------|--|------------------------------|---|--------------------------|-----------|
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos |  |                              |   |                          |           |
| <b>Primary energy - Énergie primaire - Energía primaria</b>   |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                              |   |                          |           |
| Production - Production - Generación  |                              |                            | 16   | 0                               |  |                                   |   |   | 11                              |  |                              |   |                          | 28        |
| Imports - Importations - Importaciones  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                              |   |                          | 0         |
| Exports - Exportations - Exportaciones  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                              |   |                          |           |
| Stock - Stocks - Inventario (+/-)   |                              |                            |  |                                 |  |                                   |   |   | 11                              |  |                              |   |                          |           |
| <b>Supply - Approvisionnement - Oferta</b>  |                              |                            | <b>16</b>                                      | <b>0</b>                        |  |                                   |   |   |                                 |  |                              |   |                          | <b>28</b> |
| Differences - Ecarts - Diferencias  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                              |   |                          | 1         |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                              |   |                          |           |
| Electricity - Électricité - Electrica   |                              |                            | - 16   | - 0                             |  |                                   |   |   |                                 |  |                              |   |                          | 0         |
| CHP - Cogénération - Cogeneración   |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                              |   |                          |           |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                              |   |                          |           |
| Charcoal - Carbon - Carbón  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                              |   |                          |           |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                              |   |                          |           |
| Other - Autres - Otras  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                              |   |                          |           |
| Own use - Consomm. propre - Uso propio  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                              |   |                          |           |
| Distribution - Distribution - Distribución  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                              |   |                          |           |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                              |   |                          |           |
| <b>Total - Total - Total</b>  |                              |                            |  |                                 |  |                                   |   |   | 1                               |  |                              |   |                          | 21        |
| Industry - Industrie - Industria  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                              |   |                          | 7         |
| Transport - Transport - Transporte  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                              |   |                          |           |
| Commerce - Commerce - Comercial   |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                              |   |                          |           |
| Residential - Résidentiel - Residencial   |                              |                            |  |                                 |  |                                   |   |   | 1                               |  |                              |   |                          | 9         |
| Other - Autres - Otros  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                              |   |                          | 6         |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |                                 |  |                                   |   |   | 1                               |  |                              |   |                          |           |
| <b>Total - Total - Total</b>  |                              |                            | <b>15</b>                                      | <b>0</b>                        |  |                                   |   |   | <b>1</b>                        |  |                              |   |                          | <b>21</b> |
| Electricity - Électricité - Electrica   |                              |                            | 15   | 0                               |  |                                   |   |   |                                 |  |                              |   |                          | 15        |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                              |   |                          |           |
| Direct use - Utilisation directe - Uso directo  |                              |                            |  |                                 |  |                                   |   |   | 1                               |  |                              |   |                          | 6         |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                              |   |                          |           |
| Electricity - Électricité - Electrica (in/en GWh)   |                              |                            | 4  | 0                               |  |                                   |   |   |                                 |  |                              |   |                          | 5         |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                              |   |                          |           |

## Fiji

## Fiji

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                               |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios   |                             |         | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total        |              |
|---|------------------------------|----------------------------|---|---------------------------------|-------------------------------|--|-----------------------------------|---|---|-----------------------------|---------|--|-------------------------------|---|--------------------------|--------------|--------------|
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás |         |  |                               |   |                          |              |              |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaaria |                                 |                               |  |                                   |   | Primary energy - Énergie primaire - Energía primaaria   |                             |         |  |                               |   |                          |              |              |
| Production - Production - Generación  | 2 155                        | 0                          | 45  | 55                              |                               |  |                                   |   | 4 663   | 1                           |         |  | 0                             |   |                          | 6 919        |              |
| Imports - Importations - Importaciones  |                              |                            |   |                                 |                               |  |                                   |   |   |                             | - 1     |  |                               |   | 0                        | - 1          |              |
| Exports - Exportations - Exportaciones  |                              |                            |   |                                 |                               |  |                                   |   |   |                             | - 0     |  |                               |   |                          | - 1          |              |
| Stock - Stocks - Inventario (+/-)   |                              |                            |   |                                 |                               |  |                                   |   |   |                             | - 2 613 |  |                               |   | 6 919                    | - 2 613      |              |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>2 155</b>                 | <b>0</b>                   | <b>45</b>   | <b>55</b>                       |                               |  |                                   |   | <b>4 663</b>  | <b>1</b>                    |         |  | <b>0</b>                      |   |                          | <b>6 919</b> |              |
| Differences - Ecarts - Diferencias  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |         |  |                               |   |                          |              |              |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |   |                                 |                               |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                             |         |  |                               |   |                          |              |              |
| Electricity - Électricité - Electrica   | - 2 155                      | - 0                        | - 45  |                                 |                               |  |                                   |   | - 129   |                             | - 1     |  |                               |   | 2 244                    | - 86         |              |
| CHP - Cogénération - Cogeneración   |                              |                            |   |                                 |                               |  |                                   |   | - 758   |                             |         |  |                               |   | 370                      | - 388        |              |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |                               |  |                                   |   | - 172   |                             |         |  |                               |   | 78                       | - 94         |              |
| Charcoal - Charbon - Carbón   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |         |  |                               |   |                          |              |              |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |         |  |                               |   |                          |              |              |
| Other - Autres - Otras  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |         |  |                               |   |                          |              |              |
| Own use - Consomm. propre - Uso propio  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |         |  |                               |   |                          |              |              |
| Distribution - Distribution - Distribución  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |         |  |                               |   |                          |              |              |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |   |                                 |                               |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                             |         |  |                               |   |                          |              |              |
| Total - Total - Total   |                              |                            |   | 55                              |                               |  |                                   |   | <b>3 605</b>  |                             |         |  |                               |   | 78                       | <b>3 737</b> |              |
| Industry - Industrie - Industria  |                              |                            |   |                                 |                               |  |                                   |   | 3 357   |                             |         |  |                               |   |                          | <b>3 357</b> |              |
| Transport - Transport - Transporte  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |         |  |                               |   |                          |              |              |
| Commerce - Commerce - Comercial   |                              |                            |   | 27                              |                               |  |                                   |   | 37  |                             |         |  |                               |   | 12                       | <b>76</b>    |              |
| Residential - Résidentiel - Residencial   |                              |                            |   | 27                              |                               |  |                                   |   | 210   |                             |         |  |                               |   | 66                       | <b>304</b>   |              |
| Other - Autres - Otros  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |         |  |                               |   |                          |              |              |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |   |                                 |                               |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                             |         |  |                               |   |                          |              |              |
| Total - Total - Total   |                              |                            |   | 55                              |                               |  |                                   |   | <b>3 605</b>  |                             |         |  |                               |   | 78                       | <b>3 737</b> |              |
| Electricity - Électricité - Electrica   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |         |  |                               |   |                          |              |              |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |         |  |                               |   |                          |              |              |
| Direct use - Utilisation directe - Uso directo  |                              |                            |   | 55                              |                               |  |                                   |   | 3 605   |                             |         |  |                               |   | 78                       | <b>3 737</b> |              |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |   |                                 |                               |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                             |         |  |                               |   |                          |              |              |
| Electricity - Électricité - Electrica (in/en GWh)   | 599                          | 0                          | 13  |                                 |                               |  |                                   |   | 115   | 0                           |         |  |                               |   |                          | 726          |              |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |         |  |                               |   |                          |              |              |
| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                               |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios   |                             |         | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total        |              |
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás |         |  |                               |   |                          |              |              |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaaria |                                 |                               |  |                                   |   | Primary energy - Énergie primaire - Energía primaaria   |                             |         |  |                               |   |                          |              |              |
| Production - Production - Generación  | 1 974                        | 1                          | 43  | 54                              |                               |  |                                   |   | 4 098   | 1                           |         |  | 1                             |   |                          | 6 171        |              |
| Imports - Importations - Importaciones  |                              |                            |   |                                 |                               |  |                                   |   |   |                             | - 13    |  |                               |   | 1                        | - 13         |              |
| Exports - Exportations - Exportaciones  |                              |                            |   |                                 |                               |  |                                   |   |   |                             | - 13    |  |                               |   |                          | 6 158        |              |
| Stock - Stocks - Inventario (+/-)   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |         |  |                               |   |                          |              |              |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>1 974</b>                 | <b>1</b>                   | <b>43</b>   | <b>54</b>                       |                               |  |                                   |   | <b>4 098</b>  | <b>1</b>                    |         |  | <b>- 13</b>                   |   |                          | <b>6 158</b> |              |
| Differences - Ecarts - Diferencias  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |         |  |                               |   |                          |              |              |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |   |                                 |                               |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                             |         |  |                               |   |                          |              |              |
| Electricity - Électricité - Electrica   | - 1 974                      | - 1                        | - 43  |                                 |                               |  |                                   |   | - 129   |                             | - 1     |  |                               |   | 2 061                    | - 86         |              |
| CHP - Cogénération - Cogeneración   |                              |                            |   |                                 |                               |  |                                   |   | - 634   |                             |         |  |                               |   | 305                      | - 329        |              |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |                               |  |                                   |   | - 171   |                             |         |  |                               |   | 78                       | - 94         |              |
| Charcoal - Charbon - Carbón   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |         |  |                               |   | - 25                     | - 25         |              |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |         |  |                               |   | - 208                    | - 208        |              |
| Other - Autres - Otras  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |         |  |                               |   |                          |              |              |
| Own use - Consomm. propre - Uso propio  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |         |  |                               |   |                          |              |              |
| Distribution - Distribution - Distribución  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |         |  |                               |   |                          |              |              |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |   |                                 |                               |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                             |         |  |                               |   |                          |              |              |
| Total - Total - Total   |                              |                            |   | 54                              |                               |  |                                   |   | <b>3 164</b>  |                             |         |  |                               |   | 65                       | <b>5 416</b> |              |
| Industry - Industrie - Industria  |                              |                            |   |                                 |                               |  |                                   |   | 2 916   |                             |         |  |                               |   | 634                      | <b>3 550</b> |              |
| Transport - Transport - Transporte  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |         |  |                               |   |                          |              |              |
| Commerce - Commerce - Comercial   |                              |                            |   | 27                              |                               |  |                                   |   | 37  |                             |         |  |                               |   | 10                       | <b>904</b>   |              |
| Residential - Résidentiel - Residencial   |                              |                            |   | 27                              |                               |  |                                   |   | 211   |                             |         |  |                               |   | 55                       | <b>696</b>   |              |
| Other - Autres - Otros  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |         |  |                               |   |                          |              |              |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |   |                                 |                               |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                             |         |  |                               |   |                          |              |              |
| Total - Total - Total   | 1 780                        | 1                          | 39  | 54                              |                               |  |                                   |   | <b>3 478</b>  | 0                           |         |  |                               |   | 65                       | <b>5 416</b> |              |
| Electricity - Électricité - Electrica   | 1 780                        | 1                          | 39  |                                 |                               |  |                                   |   | 314   | 0                           |         |  |                               |   |                          | 634          | <b>2 133</b> |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |         |  |                               |   |                          |              |              |
| Direct use - Utilisation directe - Uso directo  |                              |                            |   | 54                              |                               |  |                                   |   | 3 164   |                             |         |  |                               |   | 65                       | <b>3 283</b> |              |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |   |                                 |                               |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                             |         |  |                               |   |                          |              |              |
| Electricity - Électricité - Electrica (in/en GWh)   | 548                          | 0                          | 12  |                                 |                               |  |                                   |   | 97  | 0                           |         |  |                               |   |                          | 657          |              |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |         |  |                               |   |                          |              |              |

## Finland

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                              |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primaires -<br>Biocombustibles primarios |                                  |                       | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Carbon<br>Carbon | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor   | Total   |                               |
|---|------------------------------|----------------------------|--|---------------------------------|-------------------------------|--|-----------------------------------|---|---|----------------------------------|-----------------------|--|------------------------------|---|----------------------------|---|-------------------------------|
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica       | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Liquidos   | Biogas - Biogaz<br>- Biogás      |                       |  |                              |   |                            |   |                               |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaria |                                 |                               |  |                                   |   | Primary energy - Énergie primaire - Energía primaria                        |                                  |                       |  |                              |   |                            |   |                               |
| Production - Production - Generación  | 48 570                       | 43 279                     | 1 412  | 110                             |                               | 33 070                                   | 14 531                            |   | 354 299<br>7 741<br>- 635   | 22 828<br>5 222<br>- 37          | 7 387<br>289<br>- 307 |  |                              | 37 387<br>- 13 261                      |                            | 525 487<br>53 949<br>- 14 203<br>- 37           |                               |
| Imports - Importations - Importaciones  |                              |                            |  |                                 |                               |  |                                   |   |   |                                  |                       |  |                              |   |                            |   | 565 196<br>- 159              |
| Exports - Exportations - Exportaciones  |                              |                            |  |                                 |                               |  |                                   |   |   |                                  |                       |  |                              |   |                            |   |                               |
| Stock - Stocks - Inventario (+/-)   |                              |                            |  |                                 |                               |  |                                   |   |   |                                  |                       |  |                              |   |                            |   |                               |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>48 570</b>                | <b>43 279</b>              | <b>1 412</b>   | <b>110</b>                      |                               | <b>33 070</b>                            | <b>14 531</b>                     |   | <b>361 405<br/>0</b>  | <b>28 013<br/>0</b>              | <b>7 676</b>          | <b>3 003<br/>- 0</b>                             |                              | <b>24 126<br/>- 160</b>                 |                            | <b>525 487<br/>53 949<br/>- 14 203<br/>- 37</b> |                               |
| Differences - Ecarts - Diferencias  |                              |                            |  |                                 |                               |  |                                   |   |   |                                  |                       |  |                              |   |                            |   |                               |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |                                 |                               |  |                                   |   |   |                                  |                       |  |                              |   |                            |   |                               |
| Electricity - Électricité - Electrica   | - 48 570                     | - 43 279                   | - 1 412  |                                 |                               |  |                                   |   | - 9 897<br>- 3 102  | - 105 192<br>- 44 617<br>- 754   | - 10<br>- 31<br>- 290 | - 26   |                              | 93 273<br>45 932                        | 48 105<br>48 309           | - 25<br>- 29 785<br>- 3 143                     |                               |
| CHP - Cogénération - Cogeneración   |                              |                            |  |                                 |                               |  |                                   |   |   |                                  |                       |  |                              |   |                            |   |                               |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |                               |  |                                   |   |   |                                  |                       |  |                              |   |                            |   |                               |
| Charcoal - Charbon - Carbón   |                              |                            |  |                                 |                               |  |                                   |   |   |                                  |                       |  |                              |   |                            |   |                               |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |  |                                 |                               |  |                                   |   |   |                                  |                       |  |                              |   |                            |   | 0                             |
| Other - Autres - Otras  |                              |                            |  |                                 |                               |  |                                   |   |   |                                  |                       |  |                              |   |                            |   | - 1207<br>- 13 701            |
| Own use - Consomm. propre - Uso propio  |                              |                            |  |                                 |                               |  |                                   |   |   |                                  |                       |  |                              |   |                            |   |                               |
| Distribution - Distribution - Distribución  |                              |                            |  |                                 |                               |  |                                   |   |   |                                  |                       |  |                              |   |                            |   | - 12 958                      |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |                                 |                               |  |                                   |   |   |                                  |                       |  |                              |   |                            |   |                               |
| Total - Total - Total   |                              |                            |  | 110                             |                               | 33 070                                   | 1532                              |   | 205 511<br>147 434  | 25 335<br>757                    | 4 997<br>2 951        | 59   |                              | 148 160<br>67 011                       | 87 570<br>27 029           | 506 344<br>246 671                              |                               |
| Industry - Industrie - Industria  |                              |                            |  |                                 |                               |  |                                   |   |   | 22 840                           | 757                   |  |                              | 2 105                                   |                            | 25 702  |                               |
| Transport - Transport - Transporte  |                              |                            |  |                                 |                               |  |                                   |   |   | 3 230                            | 399                   | 702  |                              | 32 856                                  |                            | 63 933  |                               |
| Commerce - Commerce - Comercial   |                              |                            |  |                                 |                               | 3 189                                    | 28 832                            | 43  | 48 761  | 448                              |                       | 59   |                              | 43 779                                  |                            | 157 866   |                               |
| Residential - Résidentiel - Residencial   |                              |                            |  |                                 |                               | 1 049                                    |                                   |   | 6 086   | 891                              | 587                   |  |                              | 2 409                                   | 1 150                      | 12 172  |                               |
| Other - Autres - Otros  |                              |                            |  |                                 |                               |  |                                   |   |   |                                  |                       |  |                              |   |                            |   |                               |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |                                 |                               |  |                                   |   |   |                                  |                       |  |                              |   |                            |   |                               |
| Total - Total - Total   | 52 616                       | 46 884                     | 1 530  | 110                             |                               | 37 892                                   | 11 168                            |   | 316 631   | 25 555                           | 6 773                 | 7 185  |                              |   |                            |   | 506 344                       |
| Electricity - Électricité - Electrica   | 52 616                       | 46 884                     | 1 530  |                                 |                               |  |                                   |   | 2 293   | 41 160                           | 1 037                 | 2 640  |                              |   |                            |   | 148 160                       |
| Heat - Chaleur - Calor  |                              |                            |  | 110                             |                               |  |                                   |   | 4 822   | 69 961                           | 220                   | 739  | 4 487                        |   |                            |   | 87 570                        |
| Direct use - Utilisation directe - Uso directo  |                              |                            |  |                                 |                               |  | 33 070                            | 1532  | 205 511   | 25 335                           | 4 997                 | 59   |                              |   |                            | 270 614   |                               |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |                                 |                               |  |                                   |   |   |                                  |                       |  |                              |   |                            |   |                               |
| Electricity - Électricité - Electrica (in/en GWh)   | 13 492                       | 12 022                     | 392  |                                 |                               |  |                                   |   | 588   | 10 554                           | 266                   | 677  |                              |   |                            |   | 37 991                        |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |  |                                 |                               |  |                                   |   | 5 050   | 73 272                           | 230                   | 774  | 4 699                        |   |                            |   | 91 715                        |
| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                              |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primaires -<br>Biocombustibles primarios |                                  |                       | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Carbon<br>Carbon | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor   | Total   |                               |
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica       | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Liquidos   | Biogas - Biogaz<br>- Biogás      |                       |  |                              |   |                            |   |                               |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaria |                                 |                               |  |                                   |   | Primary energy - Énergie primaire - Energía primaria                        |                                  |                       |  |                              |   |                            |   |                               |
| Production - Production - Generación  | 56 848                       | 30 624                     | 1 071  | 110                             |                               | 30 257                                   | 15 331                            |   | 378 369<br>18 159<br>- 306  | 27 298<br>4 998<br>4             | 8 138                 |  | 3 318<br>- 212               |   | 46 670<br>- 12 813         |   | 548 047<br>73 146<br>- 13 331 |
| Imports - Importations - Importaciones  |                              |                            |  |                                 |                               |  |                                   |   |   |                                  |                       |  |                              |   |                            |   | 4                             |
| Exports - Exportations - Exportaciones  |                              |                            |  |                                 |                               |  |                                   |   |   |                                  |                       |  |                              |   |                            |   | 607 865                       |
| Stock - Stocks - Inventario (+/-)   |                              |                            |  |                                 |                               |  |                                   |   |   |                                  |                       |  |                              |   |                            |   | - 50                          |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>56 848</b>                | <b>30 624</b>              | <b>1 071</b>   | <b>110</b>                      |                               | <b>30 257</b>                            | <b>15 331</b>                     |   | <b>396 222<br/>0</b>  | <b>32 300<br/>- 55</b>           | <b>8 138</b>          | <b>3 106</b>                                     |                              | <b>33 858<br/>3</b>                     |                            | <b>548 047<br/>73 146<br/>- 13 331</b>          |                               |
| Differences - Ecarts - Diferencias  |                              |                            |  |                                 |                               |  |                                   |   |   |                                  |                       |  |                              |   |                            |   |                               |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |                                 |                               |  |                                   |   |   |                                  |                       |  |                              |   |                            |   |                               |
| Electricity - Électricité - Electrica   | - 56 848                     | - 30 624                   | - 1 071  |                                 |                               |  |                                   |   | - 10 772<br>- 2 877   | - 112 592<br>- 47 618<br>- 6 169 | - 12<br>- 31<br>- 209 | - 36<br>- 2 949<br>- 343                         | - 6 475<br>- 2 739<br>6 169  |   | 88 558<br>48 870<br>51 243 |   | - 34<br>- 33 452<br>- 2 543   |
| CHP - Cogénération - Cogeneración   |                              |                            |  |                                 |                               |  |                                   |   |   |                                  |                       |  |                              |   |                            |   |                               |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |                               |  |                                   |   |   |                                  |                       |  |                              |   |                            |   |                               |
| Charcoal - Charbon - Carbón   |                              |                            |  |                                 |                               |  |                                   |   |   |                                  |                       |  |                              |   |                            |   |                               |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |  |                                 |                               |  |                                   |   |   |                                  |                       |  |                              |   |                            |   | - 0                           |
| Other - Autres - Otras  |                              |                            |  |                                 |                               |  |                                   |   |   |                                  |                       |  |                              |   |                            |   | - 1140                        |
| Own use - Consomm. propre - Uso propio  |                              |                            |  |                                 |                               |  |                                   |   |   |                                  |                       |  |                              |   |                            |   | - 12 550                      |
| Distribution - Distribution - Distribución  |                              |                            |  |                                 |                               |  |                                   |   |   |                                  |                       |  |                              |   |                            |   | - 14 373                      |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |                                 |                               |  |                                   |   |   |                                  |                       |  |                              |   |                            |   |                               |
| Total - Total - Total   |                              |                            |  | 110                             |                               | 30 257                                   | 1682                              |   | 229 843<br>166 809  | 30 188<br>592<br>3 244           | 4 810                 | 61   |                              | 156 433<br>72 608<br>28 300             | 92 554                     | 545 939<br>273 185                              |                               |
| Industry - Industrie - Industria  |                              |                            |  |                                 |                               |  |                                   |   |   | 28 090                           | 222                   |  |                              | 1 766                                   |                            | 30 078  |                               |
| Transport - Transport - Transporte  |                              |                            |  |                                 |                               |  |                                   |   |   | 3 440                            | 360                   | 785  |                              | 32 684                                  |                            | 65 386  |                               |
| Commerce - Commerce - Comercial   |                              |                            |  |                                 |                               |  |                                   |   |   | 53 050                           | 426                   |  | 61                           | 46 230                                  | 37 945                     | 164 265   |                               |
| Residential - Résidentiel - Residencial   |                              |                            |  |                                 |                               |  |                                   |   |   | 6 544                            | 721                   | 559  |                              | 3 144                                   | 1 129                      | 13 024  |                               |
| Other - Autres - Otros  |                              |                            |  |                                 |                               |  |                                   |   |   |                                  |                       |  |                              |   |                            |   |                               |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |                                 |                               |  |                                   |   |   |                                  |                       |  |                              |   |                            |   |                               |
| Total - Total - Total   | 65 899                       | 35 500                     | 1 242  | 110                             |                               | 35 757                                   | 11 694                            |   | 351 013   | 30 257                           | 7 034                 | 7 454  |                              |   |                            |   | 545 939                       |
| Electricity - Électricité - Electrica   | 65 899                       | 35 500                     | 1 242  |                                 |                               |  |                                   |   | 2 429   | 47 112                           | 4                     | 1 373  | 2 875                        |   |                            |   | 156 433                       |
| Heat - Chaleur - Calor  |                              |                            |  | 110                             |                               |  |                                   |   | 5 500   | 7 583                            | 44                    | 851  | 4 519                        |   |                            |   | 92 554                        |
| Direct use - Utilisation directe - Uso directo  |                              |                            |  |                                 |                               |  |                                   |   |   | 229 843                          | 30 188                | 4 810  | 61                           |   |                            |   | 296 951                       |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |                                 |                               |  |                                   |   |   |                                  |                       |  |                              |   |                            |   |                               |
| Electricity - Électricité - Electrica (in/en GWh)   | 15 791                       | 8 507                      | 298  |                                 |                               |  |                                   |   | 582   | 11 289                           | 1                     | 329  | 689                          |   |                            |   | 37 486                        |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |  |                                 |                               |  |                                   |   | 5 764   | 7 948                            | 46                    | 892  | 4 736                        |   |                            |   | 97 004                        |

## France

| 2022 (In/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                               |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                             |              | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Electricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total           |
|---|------------------------------|----------------------------|---|---------------------------------|-------------------------------|--|-----------------------------------|---|---|-----------------------------|--------------|--|-------------------------------|---|--------------------------|-----------------|
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás |              |  |                               |   |                          |                 |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaaria |                                 |                               |  |                                   |   | Primary energy - Énergie primaire - Energía primaaria                       |                             |              |  |                               |   |                          |                 |
| Production - Production - Generación  | 165 642                      | 136 815                    | 71 945  | 9 800                           | 18 375                        | 161 109                                  | 54 610                            | 423 705                                     | 78 802  | 68 736                      |              | 2 351  | 45 254                        |   |                          | 1189 539        |
| Imports - Importations - Importaciones  |                              |                            |   |                                 |                               | 15 327                                   |                                   | 80 881                                      |   |                             | -            | - 320  | - 32 357                      |   |                          | 143 814         |
| Exports - Exportations - Exportaciones  |                              |                            |   |                                 |                               | - 9 016                                  |                                   | - 20 182                                    |   |                             | 256          |  |                               |   |                          | - 61 874        |
| Stock - Stocks - Inventario (+/-)   |                              |                            |   |                                 |                               |  |                                   |   |   |                             | 252          |  |                               |   |                          | 256             |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>165 642</b>               | <b>136 815</b>             | <b>71 945</b>   | <b>9 800</b>                    | <b>18 375</b>                 | <b>161 109</b>                           | <b>54 610</b>                     | <b>430 017</b>                              | <b>139 758</b>  | <b>68 736</b>               | <b>- 252</b> | <b>2 031</b>                                     | <b>12 897</b>                 | <b>0</b>                                | <b>- 1 395</b>           | <b>1271 735</b> |
| Differences - Ecarts - Diferencias  |                              |                            |   |                                 |                               |  |                                   |   |   |                             | - 7          |  |                               |   |                          | - 1648          |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |              |  |                               |   |                          |                 |
| Electricity - Électricité - Electrica   | - 165 642                    | - 136 815                  | - 71 945  |                                 | - 4 089                       |  | - 13 655                          | - 6 385                                     | - 79  | - 5 996                     |              | - 1 277  | 382 239                       |   |                          | - 23 644        |
| CHP - Cogénération - Cogeneración   |                              |                            |   |                                 |                               | - 12 604                                 | - 30 086                          | - 66 998                                    | - 20  | - 28 223                    |              |  | 27 783                        | 42 064                                  |                          | - 55 480        |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |                               |  | - 5 352                           | - 32 209                                    | - 0   | - 64                        |              |  |                               | 41 129                                  |                          | - 10 907        |
| Charcoal - Charbon - Carbón   |                              |                            |   |                                 |                               |  |                                   | - 1 895                                     |   |                             |              |  |                               |   |                          | - 1167          |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |   |                                 |                               |  |                                   | - 34 776                                    |   |                             |              |  |                               |   |                          |                 |
| Other - Autres - Otras  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |              |  |                               |   |                          | - 154           |
| Own use - Consomm. propre - Uso propio  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |              |  |                               |   |                          | - 33 106        |
| Distribution - Distribution - Distribución  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |              |  |                               |   |                          | - 38 012        |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |              |  |                               |   |                          |                 |
| Total - Total - Total   |                              |                            |   | 9 800                           | 1 681                         | 159 303                                  | 5 517                             | 287 753                                     | 139 406   | 34 453                      | 33 499       | 2 760  | 357 895                       | 75 552                                  |                          | 1107 619        |
| Industry - Industrie - Industria  |                              |                            |   | 89                              |                               |  | 22                                | 55 914                                      | 3 134   | 3 389                       |              |  | 92 902                        | 35 582                                  |                          | 191 031         |
| Transport - Transport - Transporte  |                              |                            |   | 548                             | 700                           | 17 599                                   |                                   | 128 503                                     | 711   |                             | 5 614        |  | 113 664                       | 9 341                                   |                          | 137 844         |
| Commerce - Commerce - Comercial   |                              |                            |   | 9 093                           |                               | 141 704                                  | 5 408                             | 7 594                                       |   | 3 350                       |              | 2 760  | 134 087                       | 15 865                                  |                          | 171 054         |
| Residential - Résidentiel - Residencial   |                              |                            |   | 70                              | 981                           |  | 87                                | 217 608                                     | 7 058   | 25 450                      |              |  | 7 901                         | 23 724                                  |                          | 559 125         |
| Other - Autres - Otros  |                              |                            |   |                                 |                               |  |                                   | 6 637                                       |   |                             |              |  |                               | 381                                     |                          | 49 566          |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |              |  |                               |   |                          |                 |
| Total - Total - Total   | 144 772                      | 119 577                    | 62 880  | 9 800                           | 7 762                         | 161 606                                  | 27 773                            | 350 232                                     | 139 433   | 47 061                      | 33 965       | 2 760  |                               |   |                          | 1107 619        |
| Electricity - Électricité - Electrica   | 144 772                      | 119 577                    | 62 880  |                                 | 357                           |  | 6 651                             | 13 775                                      | 26  | 9 391                       | 466          |  |                               |   |                          | 357 895         |
| Heat - Chaleur - Calor  |                              |                            |   |                                 | 5 723                         | 2 303                                    | 15 605                            | 48 704                                      | 0   |                             | 3 216        |  |                               |   |                          | 75 552          |
| Direct use - Utilisation directe - Uso directo  |                              |                            |   | 9 800                           | 1 681                         | 159 303                                  | 5 517                             | 287 753                                     | 139 406   | 34 453                      | 33 499       | 2 760  |                               |   |                          | 674 172         |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |   |                                 |                               |  |                                   |   |   |                             |              |  |                               |   |                          |                 |
| Electricity - Électricité - Electrica (in/en GWh)   | 46 012                       | 38 004                     | 19 985  |                                 |                               | 114                                      | 2 114                             | 4 378                                       | 8   | 2 985                       | 148          |  |                               |   |                          | 113 747         |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |   |                                 |                               | 6 302                                    | 2 536                             | 53 629                                      | 0   | 3 542                       |              |  |                               |   |                          | 83 193          |
| 2021 (In/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                               |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                             |              | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Electricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total           |
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás |              |  |                               |   |                          |                 |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaaria |                                 |                               |  |                                   |   | Primary energy - Énergie primaire - Energía primaaria                       |                             |              |  |                               |   |                          |                 |
| Production - Production - Generación  | 216 359                      | 133 630                    | 55 285  | 9 411                           | 19 442                        | 162 469                                  | 52 023                            | 451 662                                     | 80 909  | 57 648                      |              | 2 388  | 19 294                        |   |                          | 1238 837        |
| Imports - Importations - Importaciones  |                              |                            |   |                                 |                               | 13 920                                   |                                   | 75 504                                      |   |                             | - 7 924      |  | - 202                         | - 54 887                                |                          | 111 106         |
| Exports - Exportations - Exportaciones  |                              |                            |   |                                 |                               | - 23 135                                 |                                   |   |   |                             | 679          |  |                               |   |                          | - 86 148        |
| Stock - Stocks - Inventario (+/-)   |                              |                            |   |                                 |                               |  |                                   |   |   |                             | 29 808       |  |                               |   |                          | 679             |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>216 359</b>               | <b>133 630</b>             | <b>55 285</b>   | <b>9 411</b>                    | <b>19 442</b>                 | <b>162 469</b>                           | <b>52 023</b>                     | <b>457 658</b>                              | <b>133 957</b>  | <b>57 648</b>               | <b>- 674</b> | <b>2 186</b>                                     | <b>- 35 593</b>               | <b>113</b>                              | <b></b>                  | <b>1264 474</b> |
| Differences - Ecarts - Diferencias  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |              |  |                               |   |                          | - 561           |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |              |  |                               |   |                          |                 |
| Electricity - Électricité - Electrica   | - 216 359                    | - 133 630                  | - 55 285  |                                 | - 3 611                       |  | - 14 806                          | - 4 838                                     | - 84  | - 6 516                     |              | - 968  | 412 631                       |   |                          | - 23 465        |
| CHP - Cogénération - Cogeneración   |                              |                            |   |                                 |                               | - 14 149                                 | - 1 221                           | - 28 103                                    | - 1   | - 25 910                    |              |  | 27 472                        | 41 418                                  |                          | - 47 534        |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |                               |  |                                   | - 5 337                                     | - 136   |                             |              |  |                               | 42 106                                  |                          | - 19 946        |
| Charcoal - Charbon - Carbón   |                              |                            |   |                                 |                               |  |                                   | - 2 115                                     |   |                             |              |  |                               |   |                          | - 1387          |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |   |                                 |                               |  |                                   | - 29 808                                    |   |                             |              |  |                               |   |                          |                 |
| Other - Autres - Otras  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |              |  |                               |   |                          | - 97            |
| Own use - Consomm. propre - Uso propio  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |              |  |                               |   |                          | - 30 085        |
| Distribution - Distribution - Distribución  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |              |  |                               |   |                          | - 38 847        |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |              |  |                               |   |                          |                 |
| Total - Total - Total   |                              |                            |   | 9 411                           | 1 681                         | 161 248                                  | 3 777                             | 325 281                                     | 133 198   | 25 085                      | 28 840       | 2 914  | 343 366                       | 75 751                                  |                          | 1110 553        |
| Industry - Industrie - Industria  |                              |                            |   | 84                              |                               |  | 20                                | 55 726                                      | 3 494   | 2 599                       |              |  | 89 378                        | 31 802                                  |                          | 183 104         |
| Transport - Transport - Transporte  |                              |                            |   | 561                             | 700                           | 19 478                                   |                                   | 120 780                                     | 601   |                             | 6 046        |  | 104 646                       | 7 538                                   |                          | 128 318         |
| Commerce - Commerce - Comercial   |                              |                            |   | 8 695                           |                               | 141 771                                  | 3 702                             | 253 303                                     |   |                             | 28 884       |  | 2 914                         | 134 609                                 | 16 689                   | 165 039         |
| Residential - Résidentiel - Residencial   |                              |                            |   | 71                              | 981                           |  | 54                                | 6 518                                       | 8 323   | 16 440                      |              |  |                               | 7 195                                   | 420                      | 594 089         |
| Other - Autres - Otros  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |              |  |                               |   |                          | 40 003          |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |              |  |                               |   |                          |                 |
| Total - Total - Total   | 168 961                      | 104 356                    | 43 174  | 9 411                           | 8 380                         | 162 864                                  | 24 856                            | 386 329                                     | 133 221   | 36 924                      | 29 164       | 2 914  |                               |   |                          | 1110 553        |
| Electricity - Électricité - Electrica   | 168 961                      | 104 356                    | 43 174  |                                 | 282                           |  | 5 973                             | 11 788                                      | 23  | 8 486                       | 324          |  |                               |   |                          | 343 366         |
| Heat - Chaleur - Calor  |                              |                            |   |                                 | 6 416                         |  | 1 615                             | 15 107                                      |   | 49 260                      | 3 352        |  |                               |   |                          | 75 751          |
| Direct use - Utilisation directe - Uso directo  |                              |                            |   | 9 411                           | 1 681                         | 161 248                                  | 3 777                             | 325 281                                     | 133 198   | 25 085                      | 28 840       | 2 914  |                               |   |                          | 691 435         |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |   |                                 |                               |  |                                   |   |   |                             |              |  |                               |   |                          |                 |
| Electricity - Électricité - Electrica (in/en GWh)   | 60 100                       | 37 119                     | 15 357  |                                 | 100                           |  | 2 125                             | 4 193                                       | 8   | 3 019                       | 115          |  |                               |   |                          | 122 136         |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |   |                                 |                               |  |                                   | 7 075                                       | 1 781   | 16 657                      | 54 314       |  |                               |   |                          | 83 523          |

## French Guiana

## French Guiana

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar<br>Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica | Geothermal<br>Géothermique<br>Geoeléctrica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Carbone<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor          | Total                               |
|---|------------------------------|----------------------------|---|---------------------------------|--|-----------------------------------|---|---|--|-------------------------------|---|-----------------------------------|-------------------------------------|
|   | 2 146                        |                            |   | 173                             | 25   |                                   |   | 2 393   |  |                               | - 0                                     | - 0                               | 4 737                               |
| <b>Primary energy - Énergie primaire - Energía primaria</b>   |                              |                            |   |                                 |  |                                   |   |   |  |                               |   |                                   |                                     |
| Production - Production - Generación<br>Imports - Importations - Importaciones<br>Exports - Exportations - Exportaciones<br>Stock - Stocks - Inventario (+/-)<br><b>Supply - Approvisionnement - Oferta</b><br><i>Differences - Ecart - Diferencias</i>   | 2 146                        |                            |   | 173                             | 25   |                                   |   | 2 393   |  |                               | - 0                                     | - 0                               | 4 736<br>46                         |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |   |                                 |  |                                   |   |   |  |                               |   |                                   |                                     |
| Electricity - Électricité - Electrica<br>CHP - Cogénération - Cogeneración<br>Heat - Chaleur - Calor<br>Charcoal - Charbon - Carbón<br>Pellets/briq. - Granules/briq. - Pellets/briq.<br>Other - Autres - Otras<br>Own use - Consomm. propre - Uso propio<br>Distribution - Distribution - Distribución | - 2 146                      |                            |   | - 173                           |  |                                   |   | - 448   |  |                               | 2 499                                   |                                   | - 268                               |
|   |                              |                            |   |                                 |  |                                   |   | - 703   |  |                               | 318                                     |                                   | - 385                               |
|   |                              |                            |   |                                 |  |                                   |   |   |  |                               | - 250                                   |                                   | - 250                               |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |   |                                 |  |                                   |   |   |  |                               |   |                                   |                                     |
| Total - Total - Total<br>Industry - Industrie - Industria<br>Transport - Transport - Transporte<br>Commerce - Commerce - Comercial<br>Residential - Résidentiel - Residencial<br>Other - Autres - Otros   |                              |                            |   | 25                              |  |                                   |   | 1 242   |  |                               | 318                                     | 2 295                             | 3 880<br>69<br>23<br>1 341<br>2 447 |
|   |                              |                            |   | 10                              |  |                                   |   | 1 242   |  |                               | 318                                     | 1331<br>872                       |                                     |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |   |                                 |  |                                   |   |   |  |                               |   |                                   |                                     |
| Total - Total - Total<br>Electricity - Électricité - Electrica<br>Heat - Chaleur - Calor<br>Direct use - Utilisation directe - Uso directo  | 1 971                        |                            |   | 159                             | 25   |                                   |   | 1 408   |  |                               | 318                                     |                                   | 3 880<br>2 295<br>1 585             |
|   | 1 971                        |                            |   | 159                             |  |                                   |   | 165   |  |                               | 318                                     |                                   |                                     |
|   |                              |                            |   | 25                              |  |                                   |   | 1 242   |  |                               | 318                                     |                                   |                                     |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b>   |                              |                            |   |                                 |  |                                   |   |   |  |                               |   |                                   |                                     |
| Electricity - Électricité - Electrica (in/en GWh)<br>Heat - Chaleur - Calor (in/en TJ)  | 596                          |                            |   | 48                              |  |                                   |   | 50  |  |                               |   |                                   | 694                                 |
|   |                              |                            |   |                                 |  |                                   |   |   |  |                               |   |                                   |                                     |
| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar<br>Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica | Geothermal<br>Géothermique<br>Geoeléctrica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Carbone<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor          | Total                               |
|   | 2 110                        |                            |   | 204                             | 25   |                                   |   |   | 2 393  |                               |   | - 0                               | - 0                                 |
| <b>Primary energy - Énergie primaire - Energía primaria</b>   |                              |                            |   |                                 |  |                                   |   |   |  |                               |   |                                   |                                     |
| Production - Production - Generación<br>Imports - Importations - Importaciones<br>Exports - Exportations - Exportaciones<br>Stock - Stocks - Inventario (+/-)<br><b>Supply - Approvisionnement - Oferta</b><br><i>Differences - Ecart - Diferencias</i>   | 2 110                        |                            |   | 204                             | 25   |                                   |   | 2 393   |  |                               | - 0                                     | - 0                               | 4 731<br>- 1                        |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |   |                                 |  |                                   |   |   |  |                               |   |                                   |                                     |
| Electricity - Électricité - Electrica<br>CHP - Cogénération - Cogeneración<br>Heat - Chaleur - Calor<br>Charcoal - Charbon - Carbón<br>Pellets/briq. - Granules/briq. - Pellets/briq.<br>Other - Autres - Otras<br>Own use - Consomm. propre - Uso propio<br>Distribution - Distribution - Distribución | - 2 110                      |                            |   | - 204                           |  |                                   |   | - 448   |  |                               | 2 477                                   |                                   | - 284                               |
|   |                              |                            |   |                                 |  |                                   |   | - 703   |  |                               | 318                                     |                                   | - 385                               |
|   |                              |                            |   |                                 |  |                                   |   |   |  |                               | - 248                                   |                                   | - 248                               |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |   |                                 |  |                                   |   |   |  |                               |   |                                   |                                     |
| Total - Total - Total<br>Industry - Industrie - Industria<br>Transport - Transport - Transporte<br>Commerce - Commerce - Comercial<br>Residential - Résidentiel - Residencial<br>Other - Autres - Otros   |                              |                            |   | 25                              |  |                                   |   | 1 242   |  |                               | 318                                     | 2 228<br>67<br>22<br>1 292<br>847 | 3 813<br>67<br>22<br>1 302<br>2 422 |
|   |                              |                            |   | 10                              |  |                                   |   | 1 242   |  |                               | 318                                     |                                   |                                     |
|   |                              |                            |   | 15                              |  |                                   |   |   |  |                               |   |                                   |                                     |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |   |                                 |  |                                   |   |   |  |                               |   |                                   |                                     |
| Total - Total - Total<br>Electricity - Électricité - Electrica<br>Heat - Chaleur - Calor<br>Direct use - Utilisation directe - Uso directo  | 1 898                        |                            |   | 183                             | 25   |                                   |   | 1 390   |  |                               | 318                                     |                                   | 3 813<br>2 228<br>1 585             |
|   | 1 898                        |                            |   | 183                             |  |                                   |   | 147   |  |                               | 318                                     |                                   |                                     |
|   |                              |                            |   | 25                              |  |                                   |   | 1 242   |  |                               | 318                                     |                                   |                                     |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b>   |                              |                            |   |                                 |  |                                   |   |   |  |                               |   |                                   |                                     |
| Electricity - Électricité - Electrica (in/en GWh)<br>Heat - Chaleur - Calor (in/en TJ)  | 586                          |                            |   | 57                              |  |                                   |   | 45  |  |                               |   |                                   | 688                                 |
|   |                              |                            |   |                                 |  |                                   |   |   |  |                               |   |                                   |                                     |

## French Polynesia

## French Polynesia

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                               |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios   |                                 |                             | Pellets/briq.<br>Granules/briq.<br>Pellets/briq.      | Charcoal<br>Carbon<br>Carbon | Electricity<br>Électricité<br>Electricidad | Heat<br>Chaleur<br>Calor | Total       |
|---|------------------------------|----------------------------|---|---------------------------------|--|-----------------------------------|---|---|---------------------------------|-----------------------------|---|------------------------------|--|--------------------------|-------------|
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás |   |                              |  |                          |             |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaaria |                                 |  |                                   |   |   |                                 |                             | Primary energy - Énergie primaire - Energía primaaria |                              |  |                          |             |
| Production - Production - Generación  | 691                          | 0                          | 180   | 81                              |  |                                   |   | 54  |                                 |                             | 5   |                              |  |                          | 1006        |
| Imports - Importations - Importaciones  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |  |                          | 5           |
| Exports - Exportations - Exportaciones  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |  |                          |             |
| Stock - Stocks - Inventario (+/-)   |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |  |                          |             |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>691</b>                   | <b>0</b>                   | <b>180</b>  | <b>81</b>                       |  |                                   |   | <b>54</b>   |                                 |                             | <b>5</b>  |                              |  |                          | <b>1011</b> |
| Differences - Ecarts - Diferencias  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |  |                          | 3           |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |   |                                 |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                                 |                             |   |                              |  |                          |             |
| Electricity - Électricité - Electrica   | - 691                        | - 0                        | - 180   |                                 |  |                                   |   | - 38  |                                 |                             | 17  |                              |  |                          | - 21        |
| CHP - Cogénération - Cogeneración   |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |  |                          |             |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |  |                          |             |
| Charcoal - Charbon - Carbón   |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |  |                          |             |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |  |                          |             |
| Other - Autres - Otras  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |  |                          |             |
| Own use - Consomm. propre - Uso propio  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |  |                          |             |
| Distribution - Distribution - Distribución  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |  |                          | - 48        |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |   |                                 |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                                 |                             |   |                              |  |                          |             |
| Total - Total - Total   |                              |                            |   | 81                              |  |                                   |   | 16  |                                 |                             | 22  | 827                          |  |                          | 946         |
| Industry - Industrie - Industria  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   | 144                          |  |                          | 144         |
| Transport - Transport - Transporte  |                              |                            |   | 41                              |  |                                   |   | 2   |                                 |                             | 3   | 342                          |  |                          | 388         |
| Commerce - Commerce - Comercial   |                              |                            |   | 41                              |  |                                   |   | 13  |                                 |                             | 19  | 341                          |  |                          | 414         |
| Residential - Résidentiel - Residencial   |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |  |                          |             |
| Other - Autres - Otros  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |  |                          |             |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |   |                                 |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                                 |                             |   |                              |  |                          |             |
| <b>Total - Total - Total</b>  | <b>656</b>                   | <b>0</b>                   | <b>170</b>  | <b>81</b>                       |  |                                   |   | <b>16</b>   |                                 |                             | <b>22</b>   |                              |  |                          | <b>946</b>  |
| Electricity - Électricité - Electrica   | 656                          | 0                          | 170   |                                 |  |                                   |   | 16  |                                 |                             | 22  |                              |  |                          | 827         |
| Heat - Chaleur - Calor  |                              |                            |   | 81                              |  |                                   |   |   |                                 |                             |   |                              |  |                          | 119         |
| Direct use - Utilisation directe - Uso directo  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |  |                          |             |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |   |                                 |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                                 |                             |   |                              |  |                          |             |
| Electricity - Électricité - Electrica (in/en GWh)   | 192                          | 0                          | 50  |                                 |  |                                   |   |   |                                 |                             |   |                              |  |                          | 242         |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |  |                          |             |
| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                               |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios   |                                 |                             | Pellets/briq.<br>Granules/briq.<br>Pellets/briq.      | Charcoal<br>Carbon<br>Carbon | Electricity<br>Électricité<br>Electricidad | Heat<br>Chaleur<br>Calor | Total       |
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás |   |                              |  |                          |             |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaaria |                                 |  |                                   |   |   |                                 |                             | Primary energy - Énergie primaire - Energía primaaria |                              |  |                          |             |
| Production - Production - Generación  | 519                          | 0                          | 171   | 81                              |  |                                   |   | 53  |                                 |                             | 3   |                              |  |                          | 825         |
| Imports - Importations - Importaciones  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |  |                          | 3           |
| Exports - Exportations - Exportaciones  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |  |                          |             |
| Stock - Stocks - Inventario (+/-)   |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |  |                          |             |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>519</b>                   | <b>0</b>                   | <b>171</b>  | <b>81</b>                       |  |                                   |   | <b>53</b>   |                                 |                             | <b>3</b>  |                              |  |                          | <b>828</b>  |
| Differences - Ecarts - Diferencias  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |  |                          | - 4         |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |   |                                 |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                                 |                             |   |                              |  |                          |             |
| Electricity - Électricité - Electrica   | - 519                        | - 0                        | - 171   |                                 |  |                                   |   | - 37  |                                 |                             | 17  |                              |  |                          | - 21        |
| CHP - Cogénération - Cogeneración   |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |  |                          |             |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |  |                          |             |
| Charcoal - Charbon - Carbón   |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |  |                          |             |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |  |                          |             |
| Other - Autres - Otras  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |  |                          |             |
| Own use - Consomm. propre - Uso propio  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |  |                          |             |
| Distribution - Distribution - Distribución  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |  |                          | - 40        |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |   |                                 |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                                 |                             |   |                              |  |                          |             |
| Total - Total - Total   |                              |                            |   | 81                              |  |                                   |   | 16  |                                 |                             | 20  | 647                          |  |                          | 764         |
| Industry - Industrie - Industria  |                              |                            |   |                                 |  |                                   |   | 2   |                                 |                             | 3   | 104                          |  |                          | 104         |
| Transport - Transport - Transporte  |                              |                            |   | 41                              |  |                                   |   | 13  |                                 |                             | 17  | 275                          |  |                          | 321         |
| Commerce - Commerce - Comercial   |                              |                            |   | 41                              |  |                                   |   |   |                                 |                             |   | 267                          |  |                          | 338         |
| Residential - Résidentiel - Residencial   |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |  |                          |             |
| Other - Autres - Otros  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |  |                          |             |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |   |                                 |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                                 |                             |   |                              |  |                          |             |
| <b>Total - Total - Total</b>  | <b>486</b>                   | <b>0</b>                   | <b>160</b>  | <b>81</b>                       |  |                                   |   | <b>16</b>   |                                 |                             | <b>20</b>   |                              |  |                          | <b>764</b>  |
| Electricity - Électricité - Electrica   | 486                          | 0                          | 160   |                                 |  |                                   |   | 16  |                                 |                             | 20  |                              |  |                          | 647         |
| Heat - Chaleur - Calor  |                              |                            |   | 81                              |  |                                   |   |   |                                 |                             |   |                              |  |                          | 118         |
| Direct use - Utilisation directe - Uso directo  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |  |                          |             |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |   |                                 |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                                 |                             |   |                              |  |                          |             |
| Electricity - Électricité - Electrica (in/en GWh)   | 144                          | 0                          | 47  |                                 |  |                                   |   |   |                                 |                             |   |                              |  |                          | 192         |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |  |                          |             |

Renewable Energy Balances: Countries G - O

Bilans Énergétiques Renouvelables: Pays G - O

Balances de Energía Renovable: Países G - O

## Gabon

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Eoliennes<br>Eólica | Solar - Solaire - Solar                               |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios   |                                 |                             | Pellets/briq.<br>Granules/briq.<br>Pellets/briq.      | Charcoal<br>Carbon<br>Carbón | Electricity<br>Electricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total |                    |
|---|------------------------------|-----------------------------|---|---------------------------------|--|-----------------------------------|---|---|---------------------------------|-----------------------------|---|------------------------------|---|--------------------------|-------|--------------------|
|   |                              |                             | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás |   |                              |   |                          |       |                    |
|   |                              |                             | Primary energy - Énergie primaire - Energía primaaria |                                 |  |                                   |   |   |                                 |                             | Primary energy - Énergie primaire - Energía primaaria |                              |   |                          |       |                    |
| Production - Production - Generación  | 3 537                        |                             |   | 3                               |  |                                   |   |   |                                 | 12 134                      |   | 13                           |   | 0<br>- 1                 |       | 15 686<br>0<br>- 1 |
| Imports - Importations - Importaciones  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                              |   | - 0                      |       |                    |
| Exports - Exportations - Exportaciones  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                              |   | - 191                    |       | 15 686<br>- 191    |
| Stock - Stocks - Inventario (+/-)   | 3 537                        |                             |   | 3                               |  |                                   |   |   |                                 | 12 134                      |   | 13                           |   | - 0                      |       |                    |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>3 537</b>                 |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                              |   |                          |       | <b>15 686</b>      |
| Differences - Ecarts - Diferencias  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                              |   |                          |       |                    |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                             |   |                                 |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                                 |                             |   |                              |   |                          |       |                    |
| Electricity - Électricité - Electrica   | - 3 537                      |                             |   | - 3                             |  |                                   |   |   |                                 |                             |   |                              |   |                          |       | - 7                |
| CHP - Cogénération - Cogeneración   |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                              |   |                          |       |                    |
| Heat - Chaleur - Calor  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                              |   |                          |       | - 924              |
| Charcoal - Charbon - Carbón   |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                              |   |                          |       |                    |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                              |   |                          |       |                    |
| Other - Autres - Otras  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                              |   |                          |       |                    |
| Own use - Consomm. propre - Uso propio  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                              |   |                          |       |                    |
| Distribution - Distribution - Distribución  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                              |   |                          |       | - 187              |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                             |   |                                 |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                                 |                             |   |                              |   |                          |       |                    |
| <b>Total - Total - Total</b>  |                              |                             |   |                                 |  |                                   |   | <b>10 446</b>   |                                 | 7                           |   | <b>763</b>                   | <b>4 339</b>                            |                          |       | <b>15 555</b>      |
| Industry - Industrie - Industria  |                              |                             |   |                                 |  |                                   |   | 2 310   |                                 | 7                           |   | 763                          | 1 284                                   |                          |       | <b>4 364</b>       |
| Transport - Transport - Transporte  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                              | 21                                      |                          |       | <b>21</b>          |
| Commerce - Commerce - Comercial   |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                              | 599                                     |                          |       | <b>599</b>         |
| Residential - Résidentiel - Residencial   |                              |                             |   |                                 |  |                                   |   | 8 137   |                                 |                             |   |                              | 2 341                                   |                          |       | <b>10 478</b>      |
| Other - Autres - Otros  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                              | 95                                      |                          |       | <b>95</b>          |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                             |   |                                 |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                                 |                             |   |                              |   |                          |       |                    |
| <b>Total - Total - Total</b>  | <b>4 336</b>                 |                             |   | <b>3</b>                        |  |                                   |   | <b>10 446</b>   |                                 | 7                           |   | <b>763</b>                   |   |                          |       | <b>15 555</b>      |
| Electricity - Électricité - Electrica   | 4 336                        |                             |   | 3                               |  |                                   |   |   |                                 |                             |   |                              |   |                          |       | <b>4 339</b>       |
| Heat - Chaleur - Calor  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                              |   |                          |       |                    |
| Direct use - Utilisation directe - Uso directo  |                              |                             |   |                                 |  |                                   |   | 10 446  |                                 | 7                           |   | 763                          |   |                          |       | <b>11 217</b>      |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                             |   |                                 |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                                 |                             |   |                              |   |                          |       |                    |
| Electricity - Électricité - Electrica (in/en GWh)   | 982                          |                             |   | 1                               |  |                                   |   |   |                                 |                             |   |                              |   |                          |       | <b>983</b>         |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                              |   |                          |       |                    |
| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Eoliennes<br>Eólica | Solar - Solaire - Solar                               |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios   |                                 |                             | Pellets/briq.<br>Granules/briq.<br>Pellets/briq.      | Charcoal<br>Carbon<br>Carbón | Electricity<br>Electricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total |                    |
|   |                              |                             | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás |   |                              |   |                          |       |                    |
|   |                              |                             | Primary energy - Énergie primaire - Energía primaaria |                                 |  |                                   |   |   |                                 |                             | Primary energy - Énergie primaire - Energía primaaria |                              |   |                          |       |                    |
| Production - Production - Generación  | 3 537                        |                             |   | 2                               |  |                                   |   |   |                                 | 12 134                      |   | 27                           |   | 1                        |       | 15 700             |
| Imports - Importations - Importaciones  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                              |   | - 1                      |       | - 1                |
| Exports - Exportations - Exportaciones  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                              |   |                          |       |                    |
| Stock - Stocks - Inventario (+/-)   | 3 537                        |                             |   | 2                               |  |                                   |   |   |                                 | 12 134                      |   | 27                           |   | - 0                      |       | 15 700             |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>3 537</b>                 |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                              |   |                          |       | <b>- 194</b>       |
| Differences - Ecarts - Diferencias  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                              |   |                          |       |                    |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                             |   |                                 |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                                 |                             |   |                              |   |                          |       |                    |
| Electricity - Électricité - Electrica   | - 3 537                      |                             |   | - 2                             |  |                                   |   |   |                                 |                             |   |                              |   | - 13                     |       | - 9                |
| CHP - Cogénération - Cogeneración   |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                              |   | - 7                      |       | - 7                |
| Heat - Chaleur - Calor  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                              |   |                          |       |                    |
| Charcoal - Charbon - Carbón   |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                              |   |                          |       |                    |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                              |   |                          |       |                    |
| Other - Autres - Otras  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                              |   |                          |       |                    |
| Own use - Consomm. propre - Uso propio  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                              |   |                          |       |                    |
| Distribution - Distribution - Distribución  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                              |   |                          |       |                    |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                             |   |                                 |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                                 |                             |   |                              |   |                          |       |                    |
| <b>Total - Total - Total</b>  |                              |                             |   |                                 |  |                                   |   | <b>10 472</b>   |                                 | 7                           |   | <b>752</b>                   | <b>4 341</b>                            |                          |       | <b>15 572</b>      |
| Industry - Industrie - Industria  |                              |                             |   |                                 |  |                                   |   | 2 315   |                                 | 7                           |   | 752                          | 1 287                                   |                          |       | <b>4 361</b>       |
| Transport - Transport - Transporte  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                              | 16                                      |                          |       | <b>16</b>          |
| Commerce - Commerce - Comercial   |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                              | 601                                     |                          |       | <b>601</b>         |
| Residential - Résidentiel - Residencial   |                              |                             |   |                                 |  |                                   |   | 8 158   |                                 |                             |   |                              | 2 343                                   |                          |       | <b>10 500</b>      |
| Other - Autres - Otros  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                              | 94                                      |                          |       | <b>94</b>          |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                             |   |                                 |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                                 |                             |   |                              |   |                          |       |                    |
| <b>Total - Total - Total</b>  | <b>4 333</b>                 |                             |   | <b>3</b>                        |  |                                   |   | <b>10 472</b>   |                                 | 12                          |   | <b>752</b>                   |   |                          |       | <b>15 572</b>      |
| Electricity - Électricité - Electrica   | 4 333                        |                             |   | 3                               |  |                                   |   |   |                                 |                             |   |                              |   | 5                        |       | <b>4 341</b>       |
| Heat - Chaleur - Calor  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                              |   | 7                        |       |                    |
| Direct use - Utilisation directe - Uso directo  |                              |                             |   |                                 |  |                                   |   | 10 472  |                                 | 7                           |   | 752                          |   |                          |       | <b>11 231</b>      |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                             |   |                                 |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                                 |                             |   |                              |   |                          |       |                    |
| Electricity - Électricité - Electrica (in/en GWh)   | 982                          |                             |   | 1                               |  |                                   |   |   |                                 |                             |   |                              |   | 1                        |       | <b>984</b>         |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                              |   |                          |       |                    |

## Gambia

## Gambia

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Eoliennes<br>Éolica | Solar - Solaire - Solar                               |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios   |                             |  | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total        |
|---|------------------------------|-----------------------------|---|---------------------------------|-------------------------------|--|-----------------------------------|---|---|-----------------------------|--|--|-------------------------------|---|--------------------------|--------------|
|   |                              |                             | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás |  |  |                               |   |                          |              |
|   |                              |                             | Primary energy - Énergie primaire - Energía primaaria |                                 |                               |  |                                   |   | Primary energy - Énergie primaire - Energía primaaria   |                             |  |  |                               |   |                          |              |
| Production - Production - Generación  |                              |                             | 8   | 10                              |                               |  |                                   |   | 9 080   |                             |  |  | - 31                          |   |                          | 9 097        |
| Imports - Importations - Importaciones  |                              |                             | 8   | 10                              |                               |  |                                   |   | 9 080   |                             |  |  | - 31                          |   |                          | - 31         |
| Exports - Exportations - Exportaciones  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |              |
| Stock - Stocks - Inventario (+/-)   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |              |
| <b>Supply - Approvisionnement - Oferta</b>  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          | <b>9 067</b> |
| Differences - Ecarts - Diferencias  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          | <b>0</b>     |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                             |   |                                 |                               |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                             |  |  |                               |   |                          |              |
| Electricity - Électricité - Electrica   |                              |                             | - 8   | - 10                            |                               |  |                                   |   | - 5 075   |                             |  |  |                               |   |                          | - 2 778      |
| CHP - Cogénération - Cogeneración   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |              |
| Heat - Chaleur - Calor  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |              |
| Charcoal - Charbon - Carbón   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |              |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |              |
| Other - Autres - Otras  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |              |
| Own use - Consomm. propre - Uso propio  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |              |
| Distribution - Distribution - Distribución  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          | - 1          |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                             |   |                                 |                               |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                             |  |  |                               |   |                          |              |
| Total - Total - Total   |                              |                             |   |                                 |                               |  |                                   |   | 4 005   |                             |  |  | 2 267                         | 16                                      | 6 288                    |              |
| Industry - Industrie - Industria  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  | 3                             |   |                          |              |
| Transport - Transport - Transporte  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |              |
| Commerce - Commerce - Comercial   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |              |
| Residential - Résidentiel - Residencial   |                              |                             |   |                                 |                               |  |                                   |   | 4 005   |                             |  |  | 2 267                         | 13                                      | 6 271                    |              |
| Other - Autres - Otros  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          | 13           |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                             |   |                                 |                               |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                             |  |  |                               |   |                          |              |
| Total - Total - Total   |                              |                             | 7   | 9                               |                               |  |                                   |   | 4 005   |                             |  |  | 2 267                         |   | 6 288                    |              |
| Electricity - Électricité - Electrica   |                              |                             | 7   | 9                               |                               |  |                                   |   |   |                             |  |  |                               |   |                          | 16           |
| Heat - Chaleur - Calor  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  | 2 267                         |   | 6 271                    |              |
| Direct use - Utilisation directe - Uso directo  |                              |                             |   |                                 |                               |  |                                   |   | 4 005   |                             |  |  |                               |   |                          |              |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                             |   |                                 |                               |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                             |  |  |                               |   |                          |              |
| Electricity - Électricité - Electrica (in/en GWh)   |                              |                             | 2   | 3                               |                               |  |                                   |   |   |                             |  |  |                               |   |                          | 5            |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |              |
| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Eoliennes<br>Éolica | Solar - Solaire - Solar                               |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios   |                             |  | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total        |
|   |                              |                             | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás |  |  |                               |   |                          |              |
|   |                              |                             | Primary energy - Énergie primaire - Energía primaaria |                                 |                               |  |                                   |   | Primary energy - Énergie primaire - Energía primaaria   |                             |  |  |                               |   |                          |              |
| Production - Production - Generación  |                              |                             | 8   | 10                              |                               |  |                                   |   | 8 979   |                             |  |  | 52                            |   | 8 996                    |              |
| Imports - Importations - Importaciones  |                              |                             | 8   | 10                              |                               |  |                                   |   | 8 979   |                             |  |  | - 31                          |   | 52                       |              |
| Exports - Exportations - Exportaciones  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  | 22                            |   | - 31                     |              |
| Stock - Stocks - Inventario (+/-)   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |              |
| <b>Supply - Approvisionnement - Oferta</b>  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          | <b>9 018</b> |
| Differences - Ecarts - Diferencias  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          | <b>0</b>     |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                             |   |                                 |                               |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                             |  |  |                               |   |                          |              |
| Electricity - Électricité - Electrica   |                              |                             | - 8   | - 10                            |                               |  |                                   |   | - 4 983   |                             |  |  |                               |   |                          | - 0          |
| CHP - Cogénération - Cogeneración   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |              |
| Heat - Chaleur - Calor  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |              |
| Charcoal - Charbon - Carbón   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |              |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |              |
| Other - Autres - Otras  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |              |
| Own use - Consomm. propre - Uso propio  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |              |
| Distribution - Distribution - Distribución  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          | - 1          |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                             |   |                                 |                               |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                             |  |  |                               |   |                          |              |
| Total - Total - Total   |                              |                             |   |                                 |                               |  |                                   |   | 3 995   |                             |  |  | 2 277                         | 17                                      | 6 289                    |              |
| Industry - Industrie - Industria  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  | 3                             |   |                          |              |
| Transport - Transport - Transporte  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |              |
| Commerce - Commerce - Comercial   |                              |                             |   |                                 |                               |  |                                   |   | 3 995   |                             |  |  | 2 277                         | 14                                      | 6 273                    |              |
| Residential - Résidentiel - Residencial   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |              |
| Other - Autres - Otros  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          | 14           |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                             |   |                                 |                               |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                             |  |  |                               |   |                          |              |
| Total - Total - Total   |                              |                             | 7   | 9                               |                               |  |                                   |   | 3 995   |                             |  |  | 2 277                         |   | 6 289                    |              |
| Electricity - Électricité - Electrica   |                              |                             | 7   | 9                               |                               |  |                                   |   |   |                             |  |  |                               |   |                          | 17           |
| Heat - Chaleur - Calor  |                              |                             |   |                                 |                               |  |                                   |   | 3 995   |                             |  |  | 2 277                         |   | 6 273                    |              |
| Direct use - Utilisation directe - Uso directo  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |              |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                             |   |                                 |                               |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                             |  |  |                               |   |                          |              |
| Electricity - Électricité - Electrica (in/en GWh)   |                              |                             | 2   | 3                               |                               |  |                                   |   |   |                             |  |  |                               |   |                          | 5            |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |              |

## Georgia

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                              |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                             |   | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Carbon<br>Carbon | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total        |
|---|------------------------------|----------------------------|--|---------------------------------|-------------------------------|--|-----------------------------------|---|---|-----------------------------|---|--|------------------------------|---|--------------------------|--------------|
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica       | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás |   |  |                              |   |                          |              |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaria |                                 |                               |  |                                   |   | Primary energy - Énergie primaire - Energía primaria                        |                             |   |  |                              |   |                          |              |
| Production - Production - Generación  | 38 777                       | 315                        | 107  |                                 |                               |  |                                   |   | 8 736   |                             |   |  |                              |   |                          | 47 935       |
| Imports - Importations - Importaciones  |                              |                            |  |                                 |                               |  |                                   |   | - 23  |                             |   |  |                              |   |                          | 13 439       |
| Exports - Exportations - Exportaciones  |                              |                            |  |                                 |                               |  |                                   |   | 8 713   |                             |   |  |                              |   |                          | - 11 853     |
| Stock - Stocks - Inventario (+/-)   | 38 777                       | 315                        | 107  |                                 |                               |  |                                   |   |   |                             |   |  |                              |   |                          | 49 521       |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>38 777</b>                | <b>315</b>                 | <b>107</b>   |                                 |                               |  |                                   |   |   |                             |   |  |                              |   |                          | <b>1 601</b> |
| Differences - Ecarts - Diferencias  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |   |  |                              |   |                          |              |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |   |  |                              |   |                          |              |
| Electricity - Électricité - Electrica   | - 38 777                     | - 315                      | - 107  |                                 |                               |  |                                   |   |   |                             |   |  |                              |   |                          | 39 199       |
| CHP - Cogénération - Cogeneración   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |   |  |                              |   |                          |              |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |   |  |                              |   |                          | - 824        |
| Charcoal - Charbon - Carbón   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |   |  |                              |   |                          | - 3 253      |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |   |  |                              |   |                          |              |
| Other - Autres - Otras  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |   |  |                              |   |                          |              |
| Own use - Consomm. propre - Uso propio  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |   |  |                              |   |                          |              |
| Distribution - Distribution - Distribución  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |   |  |                              |   |                          |              |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |   |  |                              |   |                          |              |
| Total - Total - Total   |                              |                            |  |                                 |                               |  |                                   |   | 8 713   | 22                          |   |  |                              |   |                          | 47 046       |
| Industry - Industrie - Industria  |                              |                            |  |                                 |                               |  |                                   |   | 51  |                             |   |  |                              |   |                          | 10 441       |
| Transport - Transport - Transporte  |                              |                            |  |                                 |                               |  |                                   |   | 8 640   |                             |   |  |                              |   |                          | 671          |
| Commerce - Commerce - Comercial   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |   |  |                              |   |                          | 10 633       |
| Residential - Résidentiel - Residencial   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |   |  |                              |   |                          | 16 322       |
| Other - Autres - Otros  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |   |  |                              |   |                          | 8 979        |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |   |  |                              |   |                          |              |
| Total - Total - Total   | 37 921                       | 308                        | 104  |                                 |                               |  |                                   |   | 8 713   |                             |   |  |                              |   |                          | 47 046       |
| Electricity - Électricité - Electrica   | 37 921                       | 308                        | 104  |                                 |                               |  |                                   |   |   |                             |   |  |                              |   |                          | 38 333       |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |   |  |                              |   |                          | 8 713        |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |                                 |                               |  |                                   |   |   |                             |   |  |                              |   |                          |              |
| Electricity - Électricité - Electrica (in/en GWh)   | 10 771                       | 88                         | 30   |                                 |                               |  |                                   |   |   |                             |   |  |                              |   |                          | 10 889       |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |   |  |                              |   |                          |              |
| 2021 (In/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                              |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                             |   | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Carbon<br>Carbon | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total        |
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica       | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás |   |  |                              |   |                          |              |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaria |                                 |                               |  |                                   |   | Primary energy - Énergie primaire - Energía primaria                        |                             |   |  |                              |   |                          |              |
| Production - Production - Generación  | 36 656                       | 300                        | 84   | 141                             | 691                           |  |                                   |   | 9 851   | 0                           |   |  |                              |   |                          | 47 722       |
| Imports - Importations - Importaciones  |                              |                            |  |                                 |                               |  |                                   |   | - 1   |                             |   |  |                              |   |                          | 9 327        |
| Exports - Exportations - Exportaciones  |                              |                            |  |                                 |                               |  |                                   |   | 9 849   | 0                           |   |  |                              |   |                          | - 4 605      |
| Stock - Stocks - Inventario (+/-)   | 36 656                       | 300                        | 84   | 141                             | 691                           |  |                                   |   |   |                             |   |  |                              |   |                          | 52 443       |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>36 656</b>                | <b>300</b>                 | <b>84</b>  | <b>141</b>                      | <b>691</b>                    |  |                                   |   |   |                             |   |  |                              |   |                          |              |
| Differences - Ecarts - Diferencias  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |   |  |                              |   |                          |              |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |   |  |                              |   |                          |              |
| Electricity - Électricité - Electrica   | - 36 656                     | - 300                      | - 84   |                                 |                               |  |                                   |   |   |                             |   |  |                              |   |                          | 37 040       |
| CHP - Cogénération - Cogeneración   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |   |  |                              |   |                          |              |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |   |  |                              |   |                          | - 732        |
| Charcoal - Charbon - Carbón   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |   |  |                              |   |                          | - 2 669      |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |   |  |                              |   |                          |              |
| Other - Autres - Otras  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |   |  |                              |   |                          |              |
| Own use - Consomm. propre - Uso propio  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |   |  |                              |   |                          |              |
| Distribution - Distribution - Distribución  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |   |  |                              |   |                          |              |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |   |  |                              |   |                          |              |
| Total - Total - Total   |                              |                            |  |                                 |                               | 141                                      | 629                               |   | 9 849   | 52                          | 0 |  |                              |   |                          | 49 043       |
| Industry - Industrie - Industria  |                              |                            |  |                                 |                               | 136                                      | 320                               |   |   | 0                           | 0 |  |                              |   |                          | 10 468       |
| Transport - Transport - Transporte  |                              |                            |  |                                 |                               | 4  | 265                               |   |   | 9 797                       |   |  |                              |   |                          | 652          |
| Commerce - Commerce - Comercial   |                              |                            |  |                                 |                               | 43                                       |                                   |   |   |                             |   |  |                              |   |                          | 11 139       |
| Residential - Résidentiel - Residencial   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |   |  |                              |   |                          | 17 822       |
| Other - Autres - Otros  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |   |  |                              |   |                          | 8 962        |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |   |  |                              |   |                          |              |
| Total - Total - Total   | 38 026                       | 311                        | 87   | 141                             | 629                           |  |                                   |   | 9 849   | 0                           |   |  |                              |   |                          | 49 043       |
| Electricity - Électricité - Electrica   | 38 026                       | 311                        | 87   |                                 |                               |  |                                   |   |   |                             |   |  |                              |   |                          | 38 424       |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |   |  |                              |   |                          | 10 618       |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |                                 |                               |  |                                   |   |   |                             |   |  |                              |   |                          |              |
| Electricity - Électricité - Electrica (in/en GWh)   | 10 182                       | 83                         | 23   |                                 |                               |  |                                   |   |   |                             |   |  |                              |   |                          | 10 289       |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |   |  |                              |   |                          |              |

## Germany

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                               |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primariae -<br>Biocombustibles primarios |   |                                    | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor   | Total                                     |   |
|---|------------------------------|----------------------------|---|---------------------------------|-------------------------------|--|-----------------------------------|---|---|---|------------------------------------|--|-------------------------------|---|----------------------------|---|---|
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás                             |                                    |  |                               |   |                            |   |   |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaaria |                                 |                               |  |                                   |   | Primary energy - Energie primaire - Energía primaaria                       |   |                                    |  |                               |   |                            |   |   |
| Production - Production - Generación  | 63 450                       | 449 338                    | 217 094   | 35 051                          | 17 368                        | 71 563                                   | 133 551                           |   | 595 228<br>27 637<br>- 17 097   | 143 980<br>76 995<br>- 89 475<br>- 11                   | 340 167                            |  | 8 074<br>- 11 564             | 3 616<br>- 864<br>- 119 304             |                            | 2 066 790<br>193 168<br>- 238 304<br>- 11 |   |
| Imports - Importations - Importaciones  |                              |                            |   |                                 |                               |  |                                   |   |   |   |                                    |  |                               |   |                            |   |   |
| Exports - Exportations - Exportaciones  |                              |                            |   |                                 |                               |  |                                   |   |   |   |                                    |  |                               |   |                            |   |   |
| Stock - Stocks - Inventario (+/-)   |                              |                            |   |                                 |                               |  |                                   |   |   |   |                                    |  |                               |   |                            |   |   |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>63 450</b>                | <b>449 338</b>             | <b>217 094</b>  | <b>35 051</b>                   | <b>17 368</b>                 | <b>71 563</b>                            | <b>133 551</b>                    |   | <b>605 768</b>  | <b>131 488</b>  | <b>340 167</b>                     |  | <b>- 3 490</b>                | <b>2 752</b>                            | <b>- 42 458</b>            | <b>2 021 642</b>                          |   |
| Differences - écarts - Diferencias  |                              |                            |   |                                 |                               |  |                                   |   | 2 307   |   |                                    |  |                               |   | - 210                      | <b>2 097</b>                              |   |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |   |                                 |                               |  |                                   |   |   |   |                                    |  |                               |   |                            |   |   |
| Electricity - Électricité - Electrica   | - 63 450                     | - 449 338                  | - 217 094   |                                 | - 7 419                       |  |                                   | - 7   | - 40 768  | - 57 214<br>- 58 160<br>- 52 592<br>- 13 583            | - 54<br>- 1920<br>- 157 835<br>- 5 | - 76 259<br>- 771                                |                               |   | 789 628<br>114 286         | 57 528<br>20 203                          |   |
| CHP - Cogénération - Cogeneración   |                              |                            |   |                                 |                               |  |                                   |   |   |   |                                    |  |                               |   |                            |   |   |
| Heat - Chaleur - Calor  |                              |                            |   |                                 | - 77                          | - 6 043                                  |                                   | - 7   |   |   |                                    |  |                               |   |                            |   |   |
| Charcoal - Charbon - Carbón   |                              |                            |   |                                 |                               |  |                                   |   |   |   |                                    |  |                               |   |                            |   |   |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |   |                                 |                               |  |                                   |   |   |   |                                    |  |                               |   |                            |   |   |
| Other - Autres - Otras  |                              |                            |   |                                 |                               |  |                                   |   |   |   |                                    |  |                               |   |                            |   |   |
| Own use - Consomm. propre - Uso propio  |                              |                            |   |                                 |                               |  |                                   |   |   |   |                                    |  |                               |   |                            |   |   |
| Distribution - Distribution - Distribución  |                              |                            |   |                                 |                               |  |                                   |   | - 636   | - 794   |                                    |  |                               |   |                            |   |   |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |   |                                 |                               |  |                                   |   |   |   |                                    |  |                               |   |                            |   |   |
| Total - Total - Total   |                              |                            |   | 34 974                          | 3 906                         | 71 556                                   | 25 972                            |   | 424 177   | 131 816<br>2 889<br>123 132                             | 85 913<br>3 924                    | 51 237   | 3 808                         | 744 211<br>323 054<br>21 932            | 67 005<br>30 006<br>11 106 | 1 644 574<br>504 181<br>145 064           |   |
| Industry - Industrie - Industria  |                              |                            |   | 5                               | 6                             | 455                                      | 25 972                            |   | 117 871   |   |                                    |  |                               |   |                            |   |   |
| Transport - Transport - Transporte  |                              |                            |   | 1 401                           | 2 408                         | 5 974                                    |                                   |   | 51 840  | 618<br>13 360<br>11 121                                 | 17 185<br>192<br>34 052            |  |                               |   |                            |   |   |
| Commerce - Commerce - Comercial   |                              |                            |   | 33 516                          | 1 492                         | 65 056                                   | 250 193                           |   | 4 273   | 5 048   | 57 508                             |  |                               |   |                            |   |   |
| Residential - Résidentiel - Residencial   |                              |                            |   | 52                              |                               | 71                                       |                                   |   |   |   |                                    |  |                               |   |                            |   |   |
| Other - Autres - Otros  |                              |                            |   |                                 |                               |  |                                   |   |   |   |                                    |  |                               |   |                            |   |   |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |   |                                 |                               |  |                                   |   |   |   |                                    |  |                               |   |                            |   |   |
| Total - Total - Total   | 52 271                       | 370 170                    | 178 845   | 35 040                          | 7 121                         | 71 556                                   | 74 396                            |   | 475 486   | 132 217   | 191 981                            | 51 682   | 3 808                         |   |                            | 1 644 574                                 |   |
| Electricity - Électricité - Electrica   | 52 271                       | 370 170                    | 178 845   |                                 | 611                           |  | 17 170                            |   | 28 846  | 291   | 95 562                             |  |                               |   |                            | 744 211                                   |   |
| Heat - Chaleur - Calor  |                              |                            |   | 66                              | 2 604                         |  | 31 255                            |   | 22 463  | 110   | 10 506                             |  |                               |   |                            | 67 005                                    |   |
| Direct use - Utilisation directe - Uso directo  |                              |                            |   | 34 974                          | 3 906                         | 71 556                                   | 25 972                            |   | 424 177   | 131 816   | 85 913                             | 51 237   | 3 808                         |   |                            | 833 359                                   |   |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |   |                                 |                               |  |                                   |   |   |   |                                    |  |                               |   |                            |   |   |
| Electricity - Électricité - Electrica (in/en GWh)   | 17 625                       | 124 816                    | 60 304  | 206                             |                               |  | 5 789                             | 9 726                                       | 98  | 32 222  | 150                                |  |                               |   |                            | 250 937                                   |   |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            | 77  | 3 021                           |                               |  | 36 258                            | 26 059                                      | 128   | 12 188  |                                    |  |                               |   |                            | 77 731                                    |   |
| 2021 (In/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                               |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primariae -<br>Biocombustibles primarios |   |                                    | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor   | Total                                     |   |
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás                             |                                    |  |                               |   |                            |   |   |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaaria |                                 |                               |  |                                   |   | Primary energy - Energie primaire - Energía primaaria                       |   |                                    |  |                               |   |                            |   |   |
| Production - Production - Generación  | 70 765                       | 411 008                    | 181 699   | 30 784                          | 16 619                        | 62 391                                   | 138 859                           |   | 574 733<br>31 434<br>- 21 106   | 146 097<br>72 493<br>- 86 212                           | 343 375                            |  | 6 829<br>- 13 828             | 4 736<br>- 960<br>- 99 754              |                            | 1 976 331<br>188 891<br>- 221 860         |   |
| Imports - Importations - Importaciones  |                              |                            |   |                                 |                               |  |                                   |   |   |   |                                    |  |                               |   |                            |   |   |
| Exports - Exportations - Exportaciones  |                              |                            |   |                                 |                               |  |                                   |   |   |   |                                    |  |                               |   |                            |   |   |
| Stock - Stocks - Inventario (+/-)   |                              |                            |   |                                 |                               |  |                                   |   |   |   |                                    |  |                               |   |                            |   |   |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>70 765</b>                | <b>411 008</b>             | <b>181 699</b>  | <b>30 784</b>                   | <b>16 619</b>                 | <b>62 391</b>                            | <b>7</b>                          | <b>138 859</b>                              |   | <b>585 061</b>  | <b>132 379</b>                     | <b>343 375</b>                                   |                               | <b>- 6 999</b>                          | <b>3 776</b>               | <b>- 26 355</b>                           | <b>1 943 363</b>                                  |
| Differences - écarts - Diferencias  |                              |                            |   |                                 |                               |  |                                   |   | 367   |   |                                    |  |                               |   |                            | <b>374</b>                                |   |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |   |                                 |                               |  |                                   |   |   |   |                                    |  |                               |   |                            |   |   |
| Electricity - Électricité - Electrica   | - 70 765                     | - 411 008                  | - 181 699   |                                 | - 8 801                       |  |                                   | - 11  | - 42 578<br>- 54 547<br>- 14 750  | - 61 535<br>- 60 975<br>- 9 879<br>- 13 868<br>- 51 156 | - 57<br>- 2 500<br>- 29<br>- 884   | - 77 112<br>- 156 782<br>- 1435                  |                               | 725 372<br>115 726                      | 57 184<br>21 513           |   | - 128 184<br>- 103 330<br>- 7 963<br>- 330<br>- 0 |
| CHP - Cogénération - Cogeneración   |                              |                            |   |                                 |                               |  |                                   |   |   |   |                                    |  |                               |   |                            |   |   |
| Heat - Chaleur - Calor  |                              |                            |   |                                 | - 68                          | - 3 855                                  |                                   | - 11  |   |   |                                    |  |                               |   |                            | - 2                                       |   |
| Charcoal - Charbon - Carbón   |                              |                            |   |                                 |                               |  |                                   |   |   |   |                                    |  |                               |   |                            | - 2                                       |   |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |   |                                 |                               |  |                                   |   |   |   |                                    |  |                               |   |                            | - 87 799                                  |   |
| Other - Autres - Otras  |                              |                            |   |                                 |                               |  |                                   |   |   |   |                                    |  |                               |   |                            | - 48 568                                  |   |
| Own use - Consomm. propre - Uso propio  |                              |                            |   |                                 |                               |  |                                   |   |   |   |                                    |  |                               |   |                            |   |   |
| Distribution - Distribution - Distribución  |                              |                            |   |                                 |                               |  |                                   |   | - 114   | - 1 051   |                                    |  |                               |   |                            |   |   |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |   |                                 |                               |  |                                   |   |   |   |                                    |  |                               |   |                            |   |   |
| Total - Total - Total   |                              |                            |   | 30 716                          | 3 963                         | 62 387                                   | 26 870                            |   | 399 079<br>85 265   | 130 160<br>2 943<br>120 885                             | 88 775<br>2 898                    | 42 722   | 4 832                         | 709 056<br>311 195<br>18 258            | 69 002<br>29 799<br>12 095 | 1 567 562<br>459 473<br>294 635           |   |
| Industry - Industrie - Industria  |                              |                            |   | 3                               | 3                             | 498                                      | 26 870                            |   | 59 189<br>2 371<br>5 200  | 829<br>13 482<br>11 312                                 | 14 329<br>256<br>4 576             |  |                               |   |                            | 595 574                                   |   |
| Transport - Transport - Transporte  |                              |                            |   | 1 243                           |                               | 56 627                                   |                                   |   | 249 830<br>4 795  | 133<br>5 370  | 28 393<br>61 083                   |  |                               |   |                            | 78 737                                    |   |
| Commerce - Commerce - Comercial   |                              |                            |   | 29 425                          | 1 589                         | 62                                       |                                   |   |   |   |                                    |  |                               |   |                            |   |   |
| Residential - Résidentiel - Residencial   |                              |                            |   | 45                              |                               |  |                                   |   |   |   |                                    |  |                               |   |                            |   |   |
| Other - Autres - Otros  |                              |                            |   |                                 |                               |  |                                   |   |   |   |                                    |  |                               |   |                            |   |   |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |   |                                 |                               |  |                                   |   |   |   |                                    |  |                               |   |                            |   |   |
| Total - Total - Total   | 59 688                       | 346 674                    | 153 258   | 30 776                          | 6 394                         | 62 387                                   | 78 433                            |   | 454 408   | 130 918   | 196 685                            | 43 108   | 4 832                         |   |                            | 1 567 562                                 |   |
| Electricity - Électricité - Electrica   | 59 688                       | 346 674                    | 153 258   |                                 | 741                           |  | 18 290                            |   | 31 131  | 638   | 98 250                             |  | 386                           |   |                            | 709 056                                   |   |
| Heat - Chaleur - Calor  |                              |                            |   | 60                              | 1 690                         |  | 33 273                            |   | 31 131  | 121   | 9 661                              |  |                               |   |                            | 69 002                                    |   |
| Direct use - Utilisation directe - Uso directo  |                              |                            |   | 30 716                          | 3 963                         | 62 387                                   | 26 870                            |   | 399 079   | 130 160   | 88 775                             | 42 722   | 4 832                         |   |                            | 789 504                                   |   |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |   |                                 |                               |  |                                   |   |   |   |                                    |  |                               |   |                            |   |   |
| Electricity - Électricité - Electrica (in/en GWh)   | 19 657                       | 114 169                    | 50 472  | 244                             |                               |  | 6 023                             | 10 252                                      | 210   | 32 356  | 127                                |  |                               |   |                            | 233 511                                   |   |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |   | 68                              | 1 928                         |  |                                   | 37 948                                      | 27 597  | 138   | 11 018                             |  |                               |   |                            | 78 697                                    |   |

## Ghana

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                              |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios   |                              |     | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Carbon<br>Carbon | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total    |
|---|------------------------------|----------------------------|--|---------------------------------|-------------------------------|--|-----------------------------------|---|---|------------------------------|-----|--|------------------------------|---|--------------------------|----------|
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica       | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Solidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Bioegas - Biogaz<br>- Biogás |     |  |                              |   |                          |          |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaria |                                 |                               |  |                                   |   | Primary energy - Énergie primaire - Energía primaria  |                              |     |  |                              |   |                          |          |
| Production - Production - Generación  | 29 491                       | 0                          | 286  |                                 |                               |  |                                   |   | 168 407   |                              | 102 |  |                              |   |                          | 198 286  |
| Imports - Importations - Importaciones  |                              |                            |  |                                 |                               |  |                                   |   |   |                              |     | - 23   |                              | 48                                      |                          | 48       |
| Exports - Exportations - Exportaciones  |                              |                            |  |                                 |                               |  |                                   |   |   |                              |     | - 23   |                              | - 2 861                                 |                          | - 2 883  |
| Stock - Stocks - Inventario (+/-)   | 29 491                       | 0                          | 286  |                                 |                               |  |                                   |   | 168 407   |                              | 102 |  | - 23                         | - 2 812                                 |                          | 195 451  |
| Supply - Approvisionnement - Oferta   |                              |                            |  |                                 |                               |  |                                   |   |   |                              |     |  |                              | 866                                     |                          |          |
| Differences - Ecarts - Diferencias  |                              |                            |  |                                 |                               |  |                                   |   |   |                              |     |  |                              |   |                          |          |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |                                 |                               |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                              |     |  |                              |   |                          |          |
| Electricity - Électricité - Electrica   | - 29 491                     | - 0                        | - 286  |                                 |                               |  |                                   |   | - 1260  |                              | - 2 |  | - 2                          |   |                          | - 1192   |
| CHP - Cogénération - Cogeneración   |                              |                            |  |                                 |                               |  |                                   |   |   |                              |     |  |                              |   |                          | - 2      |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |                               |  |                                   |   |   |                              |     |  |                              |   |                          |          |
| Charcoal - Charbon - Carbón   |                              |                            |  |                                 |                               |  |                                   |   |   |                              |     |  |                              |   |                          |          |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |  |                                 |                               |  |                                   |   |   |                              |     |  |                              |   |                          |          |
| Other - Autres - Otras  |                              |                            |  |                                 |                               |  |                                   |   |   |                              |     |  |                              |   |                          |          |
| Own use - Consomm. propre - Uso propio  |                              |                            |  |                                 |                               |  |                                   |   |   |                              |     |  |                              |   |                          |          |
| Distribution - Distribution - Distribución  |                              |                            |  |                                 |                               |  |                                   |   |   |                              |     |  |                              |   |                          |          |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |                                 |                               |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                              |     |  |                              |   |                          |          |
| Total - Total - Total   |                              |                            |  |                                 |                               |  |                                   |   | 71 748  |                              | 98  |  | 51 298                       | 23 470                                  |                          | 146 614  |
| Industry - Industrie - Industria  |                              |                            |  |                                 |                               |  |                                   |   | 12 391  |                              | 93  |  |                              | 10 421                                  |                          | 22 905   |
| Transport - Transport - Transporte  |                              |                            |  |                                 |                               |  |                                   |   |   |                              | 5   |  | 3 224                        | 14                                      |                          | 14       |
| Commerce - Commerce - Comercial   |                              |                            |  |                                 |                               |  |                                   |   | 58 395  |                              | 1   |  | 48 073                       | 3 822                                   |                          | 8 014    |
| Residential - Résidentiel - Residencial   |                              |                            |  |                                 |                               |  |                                   |   |   |                              | 0   |  | 9 170                        |   |                          | 115 639  |
| Other - Autres - Otras  |                              |                            |  |                                 |                               |  |                                   |   |   |                              |     |  |                              | 42                                      |                          |          |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |                                 |                               |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                              |     |  |                              |   |                          |          |
| Total - Total - Total   | 23 190                       | 0                          | 225  |                                 |                               |  |                                   |   | 71 803  |                              | 99  |  | 51 298                       | 23 470                                  |                          | 146 614  |
| Electricity - Électricité - Electrica   | 23 190                       | 0                          | 225  |                                 |                               |  |                                   |   | 55  |                              | 1   |  |                              |   |                          | 23 470   |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |                               |  |                                   |   | 71 748  |                              | 98  |  | 51 298                       |   |                          | 123 144  |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |                                 |                               |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                              |     |  |                              |   |                          |          |
| Electricity - Electricité - Electrica (in/en GWh)   | 8 192                        | 0                          | 79   |                                 |                               |  |                                   |   | 19  |                              | 0   |  |                              |   |                          | 8 291    |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |  |                                 |                               |  |                                   |   |   |                              |     |  |                              |   |                          |          |
| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                              |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios   |                              |     | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Carbon<br>Carbon | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total    |
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica       | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Solidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Bioegas - Biogaz<br>- Biogás |     |  |                              |   |                          |          |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaria |                                 |                               |  |                                   |   | Primary energy - Énergie primaire - Energía primaria  |                              |     |  |                              |   |                          |          |
| Production - Production - Generación  | 27 075                       | 0                          | 268  |                                 |                               |  |                                   |   | 212 427   |                              | 100 |  |                              |   |                          | 239 870  |
| Imports - Importations - Importaciones  |                              |                            |  |                                 |                               |  |                                   |   |   |                              |     | - 60   |                              | 54                                      |                          | 54       |
| Exports - Exportations - Exportaciones  |                              |                            |  |                                 |                               |  |                                   |   | 212 427   |                              | 100 |  | - 60                         | - 2 158                                 |                          | - 2 217  |
| Stock - Stocks - Inventario (+/-)   | 27 075                       | 0                          | 268  |                                 |                               |  |                                   |   |   |                              |     | 14   |                              | - 2 103                                 |                          | 237 707  |
| Supply - Approvisionnement - Oferta   |                              |                            |  |                                 |                               |  |                                   |   |   |                              |     | 14   |                              | - 729                                   |                          | - 715    |
| Differences - Ecarts - Diferencias  |                              |                            |  |                                 |                               |  |                                   |   |   |                              |     |  |                              |   |                          |          |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |                                 |                               |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                              |     |  |                              |   |                          |          |
| Electricity - Électricité - Electrica   | - 27 075                     | - 0                        | - 268  |                                 |                               |  |                                   |   | - 1 251   |                              | - 2 |  |                              | 27 413                                  |                          | - 1 181  |
| CHP - Cogénération - Cogeneración   |                              |                            |  |                                 |                               |  |                                   |   |   |                              |     |  |                              |   |                          | - 2      |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |                               |  |                                   |   | - 112 140   |                              |     |  | 54 262                       |   |                          | - 57 878 |
| Charcoal - Charbon - Carbón   |                              |                            |  |                                 |                               |  |                                   |   |   |                              |     |  |                              |   |                          |          |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |  |                                 |                               |  |                                   |   |   |                              |     |  |                              | - 897                                   |                          | - 897    |
| Other - Autres - Otras  |                              |                            |  |                                 |                               |  |                                   |   |   |                              |     |  |                              | - 1 953                                 |                          | - 1 953  |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |                                 |                               |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                              |     |  |                              |   |                          |          |
| Total - Total - Total   |                              |                            |  |                                 |                               |  |                                   |   | 99 036  |                              | 98  |  | 54 217                       | 21 730                                  |                          | 175 082  |
| Industry - Industrie - Industria  |                              |                            |  |                                 |                               |  |                                   |   | 19 354  |                              | 93  |  | 136                          | 9 572                                   |                          | 29 154   |
| Transport - Transport - Transporte  |                              |                            |  |                                 |                               |  |                                   |   |   |                              | 5   |  | 3 669                        | 12                                      |                          | 12       |
| Commerce - Commerce - Comercial   |                              |                            |  |                                 |                               |  |                                   |   | 19 666  |                              | 1   |  | 50 412                       | 3 452                                   |                          | 9 091    |
| Residential - Résidentiel - Residencial   |                              |                            |  |                                 |                               |  |                                   |   | 77 717  |                              | 0   |  | 8 662                        |   |                          | 136 792  |
| Other - Autres - Otras  |                              |                            |  |                                 |                               |  |                                   |   |   |                              |     |  |                              | 32                                      |                          | 32       |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |                                 |                               |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                              |     |  |                              |   |                          |          |
| Total - Total - Total   | 21 463                       | 0                          | 212  |                                 |                               |  |                                   |   | 99 091  |                              | 98  |  | 54 217                       |   |                          | 175 082  |
| Electricity - Électricité - Electrica   | 21 463                       | 0                          | 212  |                                 |                               |  |                                   |   | 55  |                              |     |  |                              |   |                          | 21 730   |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |                               |  |                                   |   | 99 036  |                              | 98  |  | 54 217                       |   |                          | 153 351  |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |                                 |                               |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                              |     |  |                              |   |                          |          |
| Electricity - Electricité - Electrica (in/en GWh)   | 7 521                        | 0                          | 74   |                                 |                               |  |                                   |   | 19  |                              |     |  |                              |   |                          | 7 615    |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |  |                                 |                               |  |                                   |   |   |                              |     |  |                              |   |                          |          |

## Greece

| 2022 (In/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                               |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios   |                                  |                  | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total                               |               |
|---|------------------------------|----------------------------|---|---------------------------------|-------------------------------|--|-----------------------------------|---|---|----------------------------------|------------------|--|-------------------------------|---|--------------------------|-------------------------------------|---------------|
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás      |                  |  |                               |   |                          |                                     |               |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaaria |                                 |                               |  |                                   |   | Primary energy - Énergie primaire - Energía primaaria   |                                  |                  |  |                               |   |                          |                                     |               |
| Production - Production - Generación  | 13 879                       | 39 180                     | 25 703  | 13 381                          | 332                           | 18 619                                   |                                   |   | 33 356<br>631<br>- 163  | 6 702<br>5 177<br>- 1797<br>288  | 6 083<br>- 59    | 741  | 1550                          | 11 892<br>- 6 603                       |                          | 157 234<br>19 991<br>- 8 622<br>288 |               |
| Imports - Importations - Importaciones  |                              |                            |   |                                 |                               |  |                                   |   | 33 825  | 10 369<br>- 1<br>47              | 6 083            | 682  | 1550                          | 5 289<br>565                            |                          | 168 891<br>610                      |               |
| Exports - Exportations - Exportaciones  |                              |                            |   |                                 |                               |  |                                   |   |   |                                  |                  |  |                               |   |                          |                                     |               |
| Stock - Stocks - Inventario (+/-)   | 13 879                       | 39 180                     | 25 703  | 13 381                          | 332                           | 18 619                                   |                                   |   |   |                                  |                  |  |                               |   |                          |                                     |               |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>13 879</b>                | <b>39 180</b>              | <b>25 703</b>   | <b>13 381</b>                   | <b>332</b>                    | <b>18 619</b>                            |                                   |   |   |                                  |                  |  |                               |   |                          |                                     |               |
| Differences - écarts - Diferencias  |                              |                            |   |                                 |                               |  |                                   |   |   |                                  |                  |  |                               |   |                          |                                     |               |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |   |                                 |                               |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                                  |                  |  |                               |   |                          |                                     |               |
| Electricity - Électricité - Electrica   | - 13 879                     | - 39 180                   | - 25 703  |                                 |                               |  |                                   |   | - 234<br>- 605  | - 3                              | - 705<br>- 3 884 |  |                               | 79 041<br>1768                          |                          | - 662<br>- 2 721                    |               |
| CHP - Cogénération - Cogeneración   |                              |                            |   |                                 |                               |  |                                   |   |   |                                  |                  |  |                               |   |                          |                                     |               |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |                               |  |                                   |   | - 25<br>- 330   |                                  |                  |  | 330                           | 6                                       |                          | - 19<br>- 0                         |               |
| Charcoal - Charbon - Carbón   |                              |                            |   |                                 |                               |  |                                   |   |   |                                  |                  |  |                               |   |                          |                                     |               |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |   |                                 |                               |  |                                   |   |   |                                  |                  |  |                               |   |                          |                                     |               |
| Other - Autres - Otras  |                              |                            |   |                                 |                               |  |                                   |   |   |                                  |                  |  |                               |   |                          |                                     |               |
| Own use - Consomm. propre - Uso propio  |                              |                            |   |                                 |                               |  |                                   |   |   |                                  |                  |  |                               |   |                          |                                     |               |
| Distribution - Distribution - Distribución  |                              |                            |   |                                 |                               |  |                                   |   |   |                                  |                  |  |                               |   |                          |                                     |               |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |   |                                 |                               |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                                  |                  |  |                               |   |                          |                                     |               |
| <b>Total - Total - Total</b>  |                              |                            |   | <b>13 381</b>                   | <b>332</b>                    | <b>18 619</b>                            |                                   |   | <b>32 631</b><br>3 977  | <b>10 365</b>                    | <b>1 469</b>     | <b>1 012</b>                                     | <b>1 556</b>                  | <b>73 840</b>                           |                          | <b>153 205</b>                      |               |
| Industry - Industrie - Industria  |                              |                            |   | 74                              | 5                             |  |                                   |   | 166<br>9 065  | 1 008                            |                  |  |                               | 18 246<br>339                           |                          | <b>23 476</b>                       |               |
| Transport - Transport - Transporte  |                              |                            |   | 488                             | 259                           | 14 590                                   |                                   |   | 191   |                                  | 461              | 152  |                               | 26 411                                  |                          | <b>9 405</b>                        |               |
| Commerce - Commerce - Comercial   |                              |                            |   | 12 819                          |                               | 4 029                                    |                                   |   | 27 278  |                                  |                  | 860  | 1 556                         | 25 440                                  |                          | <b>42 564</b>                       |               |
| Residential - Résidentiel - Residencial   |                              |                            |   |                                 |                               | 68                                       |                                   |   | 1185  | 1 121                            |                  |  |                               | 3 403                                   |                          | <b>71 982</b>                       |               |
| Other - Autres - Otros  |                              |                            |   |                                 |                               |  |                                   |   |   |                                  |                  |  |                               |   |                          | <b>5 778</b>                        |               |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |   |                                 |                               |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                                  |                  |  |                               |   |                          |                                     |               |
| <b>Total - Total - Total</b>  | <b>12 682</b>                | <b>35 801</b>              | <b>23 487</b>   | <b>13 381</b>                   | <b>332</b>                    | <b>18 619</b>                            |                                   |   | <b>32 801</b>   | <b>10 365</b>                    | <b>3 169</b>     | <b>1 012</b>                                     | <b>1 556</b>                  |   |                          | <b>153 205</b>                      |               |
| Electricity - Électricité - Electrica   | 12 682                       | 35 801                     | 23 487  | 13 381                          | 332                           | 18 619                                   |                                   |   | 170   |                                  | 1 700            |  |                               |   |                          |                                     | <b>73 840</b> |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |                               |  |                                   |   |   |                                  |                  |  |                               |   |                          |                                     |               |
| Direct use - Utilisation directe - Uso directo  |                              |                            |   |                                 |                               |  |                                   |   |   | 32 631                           | 10 365           | 1 469  | 1 012                         | 1 556                                   |                          |                                     | <b>79 365</b> |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |   |                                 |                               |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                                  |                  |  |                               |   |                          |                                     |               |
| Electricity - Électricité - Electrica (in/en GWh)   | 3 855                        | 10 883                     | 7 140   |                                 |                               |  |                                   |   | 52  |                                  | 517              |  |                               |   |                          |                                     | <b>22 447</b> |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |   |                                 |                               |  |                                   |   |   |                                  |                  |  |                               |   |                          |                                     |               |
| 2021 (In/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                               |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios   |                                  |                  | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total                               |               |
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás      |                  |  |                               |   |                          |                                     |               |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaaria |                                 |                               |  |                                   |   | Primary energy - Énergie primaire - Energía primaaria   |                                  |                  |  |                               |   |                          |                                     |               |
| Production - Production - Generación  | 21 252                       | 37 739                     | 18 904  | 12 724                          | 181                           | 18 406                                   |                                   |   | 32 944<br>656   | 6 702<br>5 177<br>- 1 797<br>288 | 5 326            | 741  | 1 641                         | 11 050<br>- 5 680                       |                          | 154 178<br>19 265<br>- 7 669        |               |
| Imports - Importations - Importaciones  |                              |                            |   |                                 |                               |  |                                   |   |   |                                  |                  |  |                               |   |                          |                                     |               |
| Exports - Exportations - Exportaciones  |                              |                            |   |                                 |                               |  |                                   |   |   |                                  |                  |  |                               |   |                          |                                     |               |
| Stock - Stocks - Inventario (+/-)   | 21 252                       | 37 739                     | 18 904  | 12 724                          | 181                           | 18 406                                   |                                   |   | 33 600  | 10 369<br>- 1<br>69              | 5 326            | 549  | 1 641                         | 5 370<br>- 758                          |                          | 166 061<br>- 690                    |               |
| Differences - écarts - Diferencias  |                              |                            |   |                                 |                               |  |                                   |   |   |                                  |                  |  |                               |   |                          |                                     |               |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |   |                                 |                               |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                                  |                  |  |                               |   |                          |                                     |               |
| Electricity - Électricité - Electrica   | - 21 252                     | - 37 739                   | - 18 904  |                                 |                               |  |                                   |   | - 410<br>- 645  | - 3                              | - 686<br>- 3 169 |  |                               | 78 243<br>1554                          |                          | - 751<br>- 2 260                    |               |
| CHP - Cogénération - Cogeneración   |                              |                            |   |                                 |                               |  |                                   |   |   |                                  |                  |  |                               |   |                          |                                     |               |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |                               |  |                                   |   | - 74<br>- 373   |                                  |                  |  | 373                           | 19                                      |                          | - 56<br>0                           |               |
| Charcoal - Charbon - Carbón   |                              |                            |   |                                 |                               |  |                                   |   |   |                                  |                  |  |                               |   |                          |                                     |               |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |   |                                 |                               |  |                                   |   |   |                                  |                  |  |                               |   |                          |                                     |               |
| Other - Autres - Otras  |                              |                            |   |                                 |                               |  |                                   |   |   |                                  |                  |  |                               |   |                          |                                     |               |
| Own use - Consomm. propre - Uso propio  |                              |                            |   |                                 |                               |  |                                   |   |   |                                  |                  |  |                               |   |                          |                                     |               |
| Distribution - Distribution - Distribución  |                              |                            |   |                                 |                               |  |                                   |   |   |                                  |                  |  |                               |   |                          |                                     |               |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |   |                                 |                               |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                                  |                  |  |                               |   |                          |                                     |               |
| <b>Total - Total - Total</b>  |                              |                            |   | <b>12 724</b>                   | <b>181</b>                    | <b>18 406</b>                            |                                   |   | <b>32 098</b><br>4 369  | <b>10 365</b>                    | <b>1 445</b>     | <b>922</b>                                       | <b>1 659</b>                  | <b>71 777</b>                           |                          | <b>149 577</b>                      |               |
| Industry - Industrie - Industria  |                              |                            |   | 70                              | 5                             |  |                                   |   | 166<br>9 065  | 918                              |                  |  |                               | 17 740<br>284                           |                          | <b>23 268</b>                       |               |
| Transport - Transport - Transporte  |                              |                            |   | 464                             | 100                           | 14 267                                   |                                   |   | 421   | 12                               | 527              | 138  |                               | 24 123<br>25 828                        |                          | <b>9 349</b>                        |               |
| Commerce - Commerce - Comercial   |                              |                            |   | 12 190                          |                               | 4 139                                    |                                   |   | 26 250  |                                  | 784              | 1 659  |                               | 3 802                                   |                          | <b>40 053</b>                       |               |
| Residential - Résidentiel - Residencial   |                              |                            |   |                                 |                               | 76                                       |                                   |   | 1 057   | 1 121                            |                  |  |                               |   |                          | <b>70 851</b>                       |               |
| Other - Autres - Otros  |                              |                            |   |                                 |                               |  |                                   |   |   |                                  |                  |  |                               |   |                          | <b>6 056</b>                        |               |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |   |                                 |                               |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                                  |                  |  |                               |   |                          |                                     |               |
| <b>Total - Total - Total</b>  | <b>19 117</b>                | <b>33 946</b>              | <b>17 004</b>   | <b>12 724</b>                   | <b>181</b>                    | <b>18 406</b>                            |                                   |   | <b>32 235</b>   | <b>10 365</b>                    | <b>3 018</b>     | <b>922</b>                                       | <b>1 659</b>                  |   |                          | <b>149 577</b>                      |               |
| Electricity - Électricité - Electrica   | 19 117                       | 33 946                     | 17 004  | 12 724                          | 181                           | 18 406                                   |                                   |   | 137   |                                  | 1 574            | 922  | 1 659                         |   |                          | <b>71 777</b>                       |               |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |                               |  |                                   |   |   | 32 098                           | 10 365           | 1 445  |                               |   |                          |                                     |               |
| Direct use - Utilisation directe - Uso directo  |                              |                            |   |                                 |                               |  |                                   |   |   |                                  |                  |  |                               |   |                          | <b>77 800</b>                       |               |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |   |                                 |                               |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                                  |                  |  |                               |   |                          |                                     |               |
| Electricity - Électricité - Electrica (in/en GWh)   | 5 903                        | 10 483                     | 5 251   |                                 |                               |  |                                   |   | 42  |                                  | 486              |  |                               |   |                          |                                     | <b>22 166</b> |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |   |                                 |                               |  |                                   |   |   |                                  |                  |  |                               |   |                          |                                     |               |

## Grenada

## Grenada

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                        |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                                 |                             | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Carbon<br>Carbón | Electricity<br>Electricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total |
|---|------------------------------|----------------------------|--|---------------------------------|--|-----------------------------------|---|---|---------------------------------|-----------------------------|--|------------------------------|---|--------------------------|-------|
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Solidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás |  |                              |   |                          |       |
| <b>Primary energy - Énergie primaire - Energía primaria</b>   |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |       |
| Production - Production - Generación  |                              |                            | 1  | 15                              |  |                                   |   |   |                                 |                             |  | 0                            |   |                          | 16    |
| Imports - Importations - Importaciones  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  | 0                            |   |                          | 0     |
| Exports - Exportations - Exportaciones  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |       |
| Stock - Stocks - Inventario (+/-)   |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |       |
| <b>Supply - Approvisionnement - Oferta</b>  |                              |                            | 1  | 15                              |  |                                   |   |   |                                 |                             |  | 0                            |   |                          | 16    |
| Differences - Écarts - Diferencias  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  | 0                            |   |                          |       |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |       |
| Electricity - Électricité - Electrica   |                              |                            | - 1  | - 15                            |  |                                   |   |   |                                 |                             |  | 16                           |   |                          | - 0   |
| CHP - Cogénération - Cogeneración   |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |       |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |       |
| Charcoal - Charbon - Carbón   |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |       |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |       |
| Other - Autres - Otras  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  | - 1                          |   |                          | - 1   |
| Own use - Consomm. propre - Uso propio  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  | - 1                          |   |                          | - 1   |
| Distribution - Distribution - Distribución  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  | - 1                          |   |                          | - 1   |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |       |
| <b>Total - Total - Total</b>  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             | 0  | 14                           |   |                          | 14    |
| Industry - Industrie - Industria  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             | 1  |                              |   |                          | 1     |
| Transport - Transport - Transporte  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |       |
| Commerce - Commerce - Comercial   |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  | 8                            |   |                          | 8     |
| Residential - Résidentiel - Residencial   |                              |                            |  |                                 |  |                                   |   |   |                                 |                             | 0  | 6                            |   |                          | 6     |
| Other - Autres - Otros  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |       |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |       |
| <b>Total - Total - Total</b>  |                              |                            | 1  | 14                              |  |                                   |   |   |                                 |                             | 0  |                              |   |                          | 14    |
| Electricity - Électricité - Electrica   |                              |                            | 1  | 14                              |  |                                   |   |   |                                 |                             | 0  |                              |   |                          | 14    |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             | 0  |                              |   |                          | 0     |
| Direct use - Utilisation directe - Uso directo  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |       |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |       |
| Electricity - Électricité - Electrica (in/en GWh)   |                              |                            | 0  | 4                               |  |                                   |   |   |                                 |                             |  |                              |   |                          | 4     |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |       |
| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                        |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                                 |                             | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Carbon<br>Carbón | Electricity<br>Electricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total |
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Solidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás |  |                              |   |                          |       |
| <b>Primary energy - Énergie primaire - Energía primaria</b>   |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |       |
| Production - Production - Generación  |                              |                            | 1  | 16                              |  |                                   |   |   |                                 |                             |  |                              |   |                          | 17    |
| Imports - Importations - Importaciones  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |       |
| Exports - Exportations - Exportaciones  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |       |
| Stock - Stocks - Inventario (+/-)   |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |       |
| <b>Supply - Approvisionnement - Oferta</b>  |                              |                            | 1  | 16                              |  |                                   |   |   |                                 |                             |  |                              |   |                          | 17    |
| Differences - Écarts - Diferencias  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |       |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |       |
| Electricity - Électricité - Electrica   |                              |                            | - 1  | - 16                            |  |                                   |   |   |                                 |                             |  | 17                           |   |                          | - 0   |
| CHP - Cogénération - Cogeneración   |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |       |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |       |
| Charcoal - Charbon - Carbón   |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |       |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |       |
| Other - Autres - Otras  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |       |
| Own use - Consomm. propre - Uso propio  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |       |
| Distribution - Distribution - Distribución  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |       |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |       |
| <b>Total - Total - Total</b>  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             | 15   |                              |   |                          | 15    |
| Industry - Industrie - Industria  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             | 1  |                              |   |                          | 1     |
| Transport - Transport - Transporte  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |       |
| Commerce - Commerce - Comercial   |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  | 8                            |   |                          | 8     |
| Residential - Résidentiel - Residencial   |                              |                            |  |                                 |  |                                   |   |   |                                 |                             | 6  |                              |   |                          | 6     |
| Other - Autres - Otros  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |       |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |       |
| <b>Total - Total - Total</b>  |                              |                            | 1  | 14                              |  |                                   |   |   |                                 |                             | 0  |                              |   |                          | 15    |
| Electricity - Électricité - Electrica   |                              |                            | 1  | 14                              |  |                                   |   |   |                                 |                             | 0  |                              |   |                          | 15    |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |       |
| Direct use - Utilisation directe - Uso directo  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |       |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |       |
| Electricity - Électricité - Electrica (in/en GWh)   |                              |                            | 0  | 4                               |  |                                   |   |   |                                 |                             |  |                              |   |                          | 5     |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |       |

## Guadeloupe

## Guadeloupe

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina  | Wind<br>Éolienne<br>Édica       | Solar - Solaire - Solar<br>Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Carbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total        |
|---|-------------------------------|---------------------------------|---|---------------------------------|--|-----------------------------------|---|---|--|------------------------------|---|--------------------------|--------------|
|   | Solids - Solides<br>- Sólidos | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás   |                                 |  |                                   |   |   |  |                              |   |                          |              |
| <b>Primary energy - Énergie primaire - Energía primaria</b>   |                               |                                 |   |                                 |  |                                   |   |   |  |                              |   |                          |              |
| Production - Producción - Generación  | 45                            | 399                             | 409   | 457                             | 3 472                                    |                                   | 1   | 1 448   |  | 173                          | 2 437                                   |                          | 6 405        |
| Imports - Importaciones - Importaciones   |                               |                                 |   |                                 |  |                                   |   |   |  |                              | 23                                      |                          | 2 437        |
| Exports - Exportaciones - Exportaciones   |                               |                                 |   |                                 |  |                                   |   |   |  |                              |   |                          | 23           |
| Stock - Stocks - Inventario (+/-)   |                               |                                 |   |                                 |  |                                   |   |   |  |                              |   |                          | 8 865        |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>45</b>                     | <b>399</b>                      | <b>409</b>  | <b>457</b>                      | <b>3 472</b>                             |                                   | <b>1</b>                                    | <b>1 448</b>  |  | <b>173</b>                   | <b>2 461</b>                            |                          | <b>8 865</b> |
| <i>Differences - Écarts - Diferencias</i>   |                               |                                 |   |                                 |  |                                   |   |   |  |                              | - 11                                    |                          | - 16         |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                               |                                 |   |                                 |  |                                   |   |   |  |                              |   |                          |              |
| Electricity - Électricité - Electrica   |                               | - 45                            | - 399   | - 409                           |  | - 3 472                           |   |   |  | - 173                        |   |                          | - 3 240      |
| CHP - Cogénération - Cogeneración   |                               |                                 |   |                                 |  |                                   |   |   |  |                              |   |                          | - 2 477      |
| Heat - Chaleur - Calor  |                               |                                 |   |                                 |  |                                   |   |   |  |                              |   |                          | - 80         |
| Charcoal - Carbon - Carbón  |                               |                                 |   |                                 |  |                                   |   |   |  |                              |   |                          |              |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                               |                                 |   |                                 |  |                                   |   |   |  |                              |   |                          | - 247        |
| Other - Autres - Otras  |                               |                                 |   |                                 |  |                                   |   |   |  |                              |   |                          |              |
| Own use - Consomm. propre - Uso propio  |                               |                                 |   |                                 |  |                                   |   |   |  |                              |   |                          |              |
| Distribution - Distribution - Distribución  |                               |                                 |   |                                 |  |                                   |   |   |  |                              |   |                          |              |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                               |                                 |   |                                 |  |                                   |   |   |  |                              |   |                          |              |
| <b>Total - Total - Total</b>  |                               |                                 |   | <b>457</b>                      |  |                                   | <b>1</b>                                    | <b>477</b>  |  |                              | <b>66</b>                               | <b>1 804</b>             | <b>2 806</b> |
| Industry - Industrie - Industria  |                               |                                 |   |                                 |  |                                   |   | 396   |  |                              |   | 219                      | 615          |
| Transport - Transport - Transporte  |                               |                                 |   |                                 |  |                                   |   |   |  |                              |   |                          |              |
| Commerce - Commerce - Comercial   |                               |                                 |   | <b>457</b>                      |  |                                   |   |   |  |                              |   |                          | 1 185        |
| Residential - Résidentiel - Residencial   |                               |                                 |   |                                 |  |                                   |   |   |  |                              |   |                          | 1 007        |
| Other - Autres - Otros  |                               |                                 |   |                                 |  |                                   |   |   |  |                              |   |                          |              |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                               |                                 |   |                                 |  |                                   |   |   |  |                              |   |                          |              |
| <b>Total - Total - Total</b>  | <b>58</b>                     | <b>515</b>                      | <b>527</b>  | <b>457</b>                      | <b>447</b>                               |                                   | <b>1</b>                                    | <b>- 186</b>  |  | <b>74</b>                    | <b>846</b>                              | <b>66</b>                | <b>2 806</b> |
| Electricity - Électricité - Electrica   | 58                            | 515                             | 527   |                                 | 447                                      |                                   |   | - 663   |  | 74                           | 846                                     | 66                       | 1 804        |
| Heat - Chaleur - Calor  |                               |                                 |   |                                 | 457                                      |                                   |   | 477   |  |                              |   |                          | 1 002        |
| Direct use - Utilisation directe - Uso directo  |                               |                                 |   |                                 |  |                                   |   |   |  |                              |   |                          |              |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                               |                                 |   |                                 |  |                                   |   |   |  |                              |   |                          |              |
| Electricity - Électricité - Electrica (in/en GWh)   | 12                            | 111                             | 114   |                                 |  |                                   |   | 96  |  |                              | - 143                                   |                          | 389          |
| Heat - Chaleur - Calor (in/en TJ)   |                               |                                 |   |                                 |  |                                   |   |   |  |                              | 16                                      | 182                      |              |

| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina  | Wind<br>Éolienne<br>Édica       | Solar - Solaire - Solar<br>Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Carbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total        |
|---|-------------------------------|---------------------------------|---|---------------------------------|--|-----------------------------------|---|---|--|------------------------------|---|--------------------------|--------------|
|   | Solids - Solides<br>- Sólidos | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás   |                                 |  |                                   |   |   |  |                              |   |                          |              |
| <b>Primary energy - Énergie primaire - Energía primaria</b>   |                               |                                 |   |                                 |  |                                   |   |   |  |                              |   |                          |              |
| Production - Producción - Generación  | 41                            | 384                             | 410   | 457                             | 3 025                                    |                                   | 1   | 1 610   |  | 183                          | 2 632                                   |                          | 6 111        |
| Imports - Importaciones - Importaciones   |                               |                                 |   |                                 |  |                                   |   |   |  |                              | 25                                      |                          | 2 632        |
| Exports - Exportaciones - Exportaciones   |                               |                                 |   |                                 |  |                                   |   |   |  |                              |   |                          |              |
| Stock - Stocks - Inventario (+/-)   |                               |                                 |   |                                 |  |                                   |   |   |  |                              |   |                          |              |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>41</b>                     | <b>384</b>                      | <b>410</b>  | <b>457</b>                      | <b>3 025</b>                             |                                   | <b>1</b>                                    | <b>1 610</b>  |  | <b>183</b>                   | <b>2 657</b>                            |                          | <b>8 768</b> |
| <i>Differences - Écarts - Diferencias</i>   |                               |                                 |   |                                 |  |                                   |   |   |  |                              | - 0                                     |                          | - 31         |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                               |                                 |   |                                 |  |                                   |   |   |  |                              |   |                          |              |
| Electricity - Électricité - Electrica   |                               | - 41                            | - 384   | - 410                           |  | - 3 025                           |   |   |  | - 183                        |   |                          | - 2 844      |
| CHP - Cogénération - Cogeneración   |                               |                                 |   |                                 |  |                                   |   |   |  |                              |   |                          | - 2 814      |
| Heat - Chaleur - Calor  |                               |                                 |   |                                 |  |                                   |   |   |  |                              |   |                          | - 80         |
| Charcoal - Carbon - Carbón  |                               |                                 |   |                                 |  |                                   |   |   |  |                              |   |                          |              |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                               |                                 |   |                                 |  |                                   |   |   |  |                              |   |                          |              |
| Other - Autres - Otras  |                               |                                 |   |                                 |  |                                   |   |   |  |                              |   |                          |              |
| Own use - Consomm. propre - Uso propio  |                               |                                 |   |                                 |  |                                   |   |   |  |                              |   |                          |              |
| Distribution - Distribution - Distribución  |                               |                                 |   |                                 |  |                                   |   |   |  |                              |   |                          |              |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                               |                                 |   |                                 |  |                                   |   |   |  |                              |   |                          |              |
| <b>Total - Total - Total</b>  |                               |                                 |   | <b>457</b>                      |  |                                   | <b>1</b>                                    | <b>477</b>  |  |                              | <b>66</b>                               | <b>1 754</b>             | <b>2 756</b> |
| Industry - Industrie - Industria  |                               |                                 |   |                                 |  |                                   |   | 396   |  |                              |   | 223                      | 619          |
| Transport - Transport - Transporte  |                               |                                 |   |                                 |  |                                   |   |   |  |                              |   |                          |              |
| Commerce - Commerce - Comercial   |                               |                                 |   |                                 |  |                                   |   |   |  |                              |   |                          | 1 137        |
| Residential - Résidentiel - Residencial   |                               |                                 |   |                                 |  |                                   |   |   |  |                              |   |                          | 1 000        |
| Other - Autres - Otros  |                               |                                 |   |                                 |  |                                   |   |   |  |                              |   |                          |              |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                               |                                 |   |                                 |  |                                   |   |   |  |                              |   |                          |              |
| <b>Total - Total - Total</b>  | <b>53</b>                     | <b>494</b>                      | <b>527</b>  | <b>457</b>                      | <b>389</b>                               |                                   | <b>1</b>                                    | <b>- 164</b>  |  | <b>78</b>                    | <b>854</b>                              | <b>66</b>                | <b>2 756</b> |
| Electricity - Électricité - Electrica   | 53                            | 494                             | 527   |                                 | 389                                      |                                   |   | - 641   |  | 78                           | 854                                     | 66                       | 1 754        |
| Heat - Chaleur - Calor  |                               |                                 |   |                                 | 457                                      |                                   |   | 477   |  |                              |   |                          | 1 002        |
| Direct use - Utilisation directe - Uso directo  |                               |                                 |   |                                 |  |                                   |   |   |  |                              |   |                          |              |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                               |                                 |   |                                 |  |                                   |   |   |  |                              |   |                          |              |
| Electricity - Électricité - Electrica (in/en GWh)   | 11                            | 107                             | 114   |                                 |  |                                   |   | 84  |  |                              | - 138                                   |                          | 379          |
| Heat - Chaleur - Calor (in/en TJ)   |                               |                                 |   |                                 |  |                                   |   |   |  |                              | 17                                      | 184                      |              |

## Guatemala

## Guatemala

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                        |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                                 | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total          |
|---|--|----------------------------|--|---------------------------------|--|-----------------------------------|---|---|---------------------------------|--|-------------------------------|---|--------------------------|----------------|
|   |  |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás                      |                               |   |                          |                |
| <b>Primary energy - Énergie primaire - Energía primaria</b>   |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |                |
| Production - Production - Generación  | 24 992                                       | 1130                       | 833  |                                 | 11 866                                   |                                   |   | 388 186   |                                 | 408  |                               | 14                                      | 3 248                    | 427 416        |
| Imports - Importations - Importaciones  |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               | - 1                                     | - 3 177                  | 3 262          |
| Exports - Exportations - Exportaciones  |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          | - 3 177        |
| Stock - Stocks - Inventario (+/-)   |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |                |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>24 992</b>                                | <b>1130</b>                | <b>833</b>                                     |                                 | <b>11 866</b>                            |                                   |   | <b>388 186</b>  |                                 | <b>408</b>                                       |                               | <b>13</b>                               | <b>72</b>                | <b>427 501</b> |
| Differences - Ecarts - Diferencias  |  |                            |  |                                 |  |                                   |   | 0   |                                 |  |                               |   |                          | 0              |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |                |
| Electricity - Électricité - Electrica   | - 24 992                                     | - 1130                     | - 833  |                                 | - 11 866                                 |                                   |   | - 52 850  |                                 | - 408  |                               |   | 35 509                   | - 56 571       |
| CHP - Cogénération - Cogeneración   |  |                            |  |                                 |  |                                   |   | - 21 938  |                                 |  |                               |   |                          | - 21 938       |
| Heat - Chaleur - Calor  |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          | - 568          |
| Charcoal - Charbon - Carbón   |  |                            |  |                                 |  |                                   |   | - 1041  |                                 |  |                               | 473                                     |                          |                |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |                |
| Other - Autres - Otras  |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          | - 1 582        |
| Own use - Consomm. propre - Uso propio  |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          | - 4 652        |
| Distribution - Distribution - Distribución  |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |                |
| <b>Final consumption - Consommation finale - Consumo final</b>  |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |                |
| <b>Total - Total - Total</b>  |  |                            |  |                                 |  |                                   |   | <b>312 358</b>  |                                 |  |                               | <b>486</b>                              | <b>31 272</b>            | <b>344 115</b> |
| Industry - Industrie - Industria  |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   | 11 520                   | 11 520         |
| Transport - Transport - Transporte  |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |                |
| Commerce - Commerce - Comercial   |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |                |
| Residential - Résidentiel - Residencial   |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |                |
| Other - Autres - Otros  |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |                |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |                |
| <b>Total - Total - Total</b>  | <b>22 010</b>                                | <b>995</b>                 | <b>734</b>                                     |                                 | <b>894</b>                               |                                   |   | <b>318 938</b>  |                                 | <b>60</b>  |                               | <b>486</b>                              |                          | <b>344 115</b> |
| Electricity - Électricité - Electrica   | 22 010                                       | 995                        | 734  |                                 | 894                                      |                                   |   | 6 580   |                                 | 60   |                               |   |                          | 31 272         |
| Heat - Chaleur - Calor  |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |                |
| Direct use - Utilisation directe - Uso directo  |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          | 312 843        |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |                |
| Electricity - Électricité - Electrica (in/en GWh)   | 6 942  | 314                        | 231  |                                 |  | 282                               |   |   | 2 075                           |  | 19                            |   |                          | 9 864          |
| Heat - Chaleur - Calor (in/en TJ)   |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |                |

| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                        |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                                 | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total          |
|---|--|----------------------------|--|---------------------------------|--|-----------------------------------|---|---|---------------------------------|--|-------------------------------|---|--------------------------|----------------|
|   |  |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás                      |                               |   |                          |                |
| <b>Primary energy - Énergie primaire - Energía primaria</b>   |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |                |
| Production - Production - Generación  | 21 457                                       | 1166                       | 868  |                                 | 11 289                                   |                                   |   | 400 528   |                                 | 665  |                               | 15                                      | 3 011                    | 435 973        |
| Imports - Importations - Importaciones  |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               | - 1                                     | - 2 945                  | 3 026          |
| Exports - Exportations - Exportaciones  |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          | - 2 945        |
| Stock - Stocks - Inventario (+/-)   |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |                |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>21 457</b>                                | <b>1166</b>                | <b>868</b>                                     |                                 | <b>11 289</b>                            |                                   |   | <b>400 528</b>  |                                 | <b>665</b>                                       |                               | <b>14</b>                               | <b>66</b>                | <b>436 053</b> |
| Differences - Ecarts - Diferencias  |  |                            |  |                                 |  |                                   |   | 0   |                                 |  |                               | - 0                                     |                          | - 0            |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |                |
| Electricity - Électricité - Electrica   | - 21 457                                     | - 1166                     | - 868  |                                 | - 11 289                                 |                                   |   | - 54 783  |                                 | - 665  |                               |   | 33 814                   | - 56 414       |
| CHP - Cogénération - Cogeneración   |  |                            |  |                                 |  |                                   |   | - 32 346  |                                 |  |                               |   |                          | - 32 346       |
| Heat - Chaleur - Calor  |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               | 497                                     |                          | - 598          |
| Charcoal - Charbon - Carbón   |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |                |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |                |
| Other - Autres - Otras  |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |                |
| Own use - Consomm. propre - Uso propio  |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |                |
| Distribution - Distribution - Distribución  |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |                |
| <b>Final consumption - Consommation finale - Consumo final</b>  |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |                |
| <b>Total - Total - Total</b>  |  |                            |  |                                 |  |                                   |   | <b>312 304</b>  |                                 |  |                               | <b>512</b>                              | <b>31 038</b>            | <b>343 853</b> |
| Industry - Industrie - Industria  |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               | 11 862                                  |                          | 11 862         |
| Transport - Transport - Transporte  |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |                |
| Commerce - Commerce - Comercial   |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               | 7 931                                   |                          | 17 333         |
| Residential - Résidentiel - Residencial   |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               | 11 244                                  |                          | 314 657        |
| Other - Autres - Otros  |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |                |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |                |
| <b>Total - Total - Total</b>  | <b>19 695</b>                                | <b>1 070</b>               | <b>797</b>                                     |                                 | <b>876</b>                               |                                   |   | <b>320 815</b>  |                                 | <b>89</b>  |                               | <b>512</b>                              |                          | <b>343 853</b> |
| Electricity - Électricité - Electrica   | 19 695                                       | 1 070                      | 797  |                                 | 876                                      |                                   |   | 8 511   |                                 | 89   |                               |   |                          | 31 038         |
| Heat - Chaleur - Calor  |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |                |
| Direct use - Utilisation directe - Uso directo  |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               | 512                                     |                          | 312 815        |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |                |
| Electricity - Électricité - Electrica (in/en GWh)   | 5 960  | 324                        | 241  |                                 |  | 265                               |   |   | 2 576                           |  | 27                            |   |                          | 9 393          |
| Heat - Chaleur - Calor (in/en TJ)   |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |                |

## Guinea

## Guinea

| 2022 (in/en TJ)                                   | Hydro/Marine<br>Hydro/Marina | Wind<br>Eoliennes<br>Éolica | Solar - Solaire - Solar   |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                             |  | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total         |                |       |
|---|------------------------------|-----------------------------|---|---------------------------------|-------------------------------|--|-----------------------------------|---|---|-----------------------------|--|--|-------------------------------|---|--------------------------|---------------|----------------|-------|
|   |                              |                             | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica  | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás |  |  |                               |   |                          |               |                |       |
|   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |                |       |
|   |                              |                             | <b>Primary energy - Énergie primaire - Energía primaria</b>   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |                |       |
| Production - Production - Generación              | 10 609                       |                             |   | 90                              |                               |  |                                   |   |   | 141 859                     |  |  |                               |   | 1                        |               | 152 558        |       |
| Imports - Importations - Importaciones            |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   | - 0                      |               | 1              |       |
| Exports - Exportations - Exportaciones            |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               | - 0            |       |
| Stock - Stocks - Inventario (+/-)                 |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |                |       |
| <b>Supply - Approvisionnement - Oferta</b>        | <b>10 609</b>                |                             |   | <b>90</b>                       |                               |  |                                   |   |   | <b>141 859</b>              |  |  |                               |   | <b>1</b>                 |               | <b>152 559</b> |       |
| Differences - Ecarts - Diferencias                |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               | <b>- 10</b>    |       |
|   |                              |                             | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |                |       |
| Electricity - Électricité - Electrica             | - 10 609                     |                             |   | - 90                            |                               |  |                                   |   |   | - 30 242                    |  |  |                               |   |                          | 10 699        |                |       |
| CHP - Cogénération - Cogeneración                 |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |                |       |
| Heat - Chaleur - Calor                            |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |                |       |
| Charcoal - Charbon - Carbón                       |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |                |       |
| Pellets/briq. - Granules/briq. - Pellets/briq.    |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |                |       |
| Other - Autres - Otras                            |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |                |       |
| Own use - Consomm. propre - Uso propio            |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |                |       |
| Distribution - Distribution - Distribución        |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |                |       |
|   |                              |                             | <b>Final consumption - Consommation finale - Consumo final</b>  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |                |       |
| <b>Total - Total - Total</b>                      |                              |                             |   |                                 |                               |  |                                   |   |   | <b>111 617</b>              |  |  |                               |   | <b>13 691</b>            | <b>10 589</b> | <b>135 896</b> |       |
| Industry - Industrie - Industria                  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   | 4 559                    |               | <b>4 559</b>   |       |
| Transport - Transport - Transporte                |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               | <b>2 440</b>   |       |
| Commerce - Commerce - Comercial                   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               | <b>128 897</b> |       |
| Residential - Résidentiel - Residencial           |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |                |       |
| Other - Autres - Otros                            |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |                |       |
|   |                              |                             | <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |                |       |
| <b>Total - Total - Total</b>                      | <b>10 500</b>                |                             |   | <b>89</b>                       |                               |  |                                   |   |   | <b>111 617</b>              |  |  |                               |   | <b>13 691</b>            | <b>10 589</b> | <b>135 896</b> |       |
| Electricity - Électricité - Electrica             | 10 500                       |                             |   | 89                              |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               | <b>10 589</b>  |       |
| Heat - Chaleur - Calor                            |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |                |       |
| Direct use - Utilisation directe - Uso directo    |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               | <b>125 307</b> |       |
|   |                              |                             | <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |                |       |
| Electricity - Électricité - Electrica (in/en GWh) | 2 947                        |                             |   | 25                              |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |                | 2 972 |
| Heat - Chaleur - Calor (in/en TJ)                 |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |                |       |
| 2021 (in/en TJ)                                   | Hydro/Marine<br>Hydro/Marina | Wind<br>Eoliennes<br>Éolica | Solar - Solaire - Solar   |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                             |  | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total         |                |       |
|   |                              |                             | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica  | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás |  |  |                               |   |                          |               |                |       |
|   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |                |       |
|   |                              |                             | <b>Primary energy - Énergie primaire - Energía primaria</b>   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |                |       |
| Production - Production - Generación              | 9 520                        |                             |   | 83                              |                               |  |                                   |   |   | 141 345                     |  |  |                               |   | 3                        |               | 150 949        |       |
| Imports - Importations - Importaciones            |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   | - 0                      |               | 3              |       |
| Exports - Exportations - Exportaciones            |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               | - 0            |       |
| Stock - Stocks - Inventario (+/-)                 |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |                |       |
| <b>Supply - Approvisionnement - Oferta</b>        | <b>9 520</b>                 |                             |   | <b>83</b>                       |                               |  |                                   |   |   | <b>141 345</b>              |  |  |                               |   | <b>3</b>                 |               | <b>150 952</b> |       |
| Differences - Ecarts - Diferencias                |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               | <b>- 102</b>   |       |
|   |                              |                             | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |                |       |
| Electricity - Électricité - Electrica             | - 9 520                      |                             |   | - 83                            |                               |  |                                   |   |   | - 29 668                    |  |  |                               |   | 9 604                    |               |                |       |
| CHP - Cogénération - Cogeneración                 |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |                |       |
| Heat - Chaleur - Calor                            |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |                |       |
| Charcoal - Charbon - Carbón                       |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |                |       |
| Pellets/briq. - Granules/briq. - Pellets/briq.    |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |                |       |
| Other - Autres - Otras                            |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |                |       |
| Own use - Consomm. propre - Uso propio            |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |                |       |
| Distribution - Distribution - Distribución        |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |                |       |
|   |                              |                             | <b>Final consumption - Consommation finale - Consumo final</b>  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |                |       |
| <b>Total - Total - Total</b>                      |                              |                             |   |                                 |                               |  |                                   |   |   | <b>111 677</b>              |  |  |                               |   | <b>13 433</b>            | <b>9 502</b>  | <b>134 612</b> |       |
| Industry - Industrie - Industria                  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   | 3 831                    |               | <b>3 831</b>   |       |
| Transport - Transport - Transporte                |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               | <b>2 375</b>   |       |
| Commerce - Commerce - Comercial                   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               | <b>128 406</b> |       |
| Residential - Résidentiel - Residencial           |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |                |       |
| Other - Autres - Otros                            |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |                |       |
|   |                              |                             | <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |                |       |
| <b>Total - Total - Total</b>                      | <b>9 419</b>                 |                             |   | <b>83</b>                       |                               |  |                                   |   |   | <b>111 677</b>              |  |  |                               |   | <b>13 433</b>            |               | <b>134 612</b> |       |
| Electricity - Électricité - Electrica             | 9 419                        |                             |   | 83                              |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               | <b>9 502</b>   |       |
| Heat - Chaleur - Calor                            |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |                |       |
| Direct use - Utilisation directe - Uso directo    |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               | <b>125 110</b> |       |
|   |                              |                             | <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |                |       |
| Electricity - Électricité - Electrica (in/en GWh) | 2 645                        |                             |   | 23                              |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |                | 2 668 |
| Heat - Chaleur - Calor (in/en TJ)                 |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |                |       |

## Guinea-Bissau

## Guinea-Bissau

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina                                | Wind<br>Eoliennes<br>Éolica | Solar - Solaire - Solar                        |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primaires -<br>Biocombustibles primarios |                                 |                             | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Electricidad | Heat<br>Chaleur<br>Calor  | Total |        |
|---|---|-----------------------------|--|---------------------------------|--|-----------------------------------|---|---|---------------------------------|-----------------------------|--|-------------------------------|--|---|-------|--------|
|   |   |                             | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás |  |                               |  |   |       |        |
|   | <b>Primary energy - Énergie primaire - Energía primaria</b> |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  |   |       |        |
| Production - Production - Generación  |   |                             |  | 10                              |  |                                   |   |   |                                 |                             | 34 398   |                               |  |   |       | 34 408 |
| Imports - Importations - Importaciones  |   |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  |   |       | - 3    |
| Exports - Exportations - Exportaciones  |   |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  |   |       | 34 405 |
| Stock - Stocks - Inventario (+/-)   |   |                             |  | 10                              |  |                                   |   |   |                                 |                             | 34 398   |                               |  |   |       | - 1    |
| <b>Supply - Approvisionnement - Oferta</b>  |   |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  |   |       |        |
| Differences - Ecarts - Diferencias  |   |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  |   |       |        |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |   |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |       |        |
| Electricity - Électricité - Electrica   |   |                             |  | - 10                            |  |                                   |   |   |                                 |                             |  |                               |  |   |       |        |
| CHP - Cogénération - Cogeneración   |   |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  |   |       |        |
| Heat - Chaleur - Calor  |   |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  |   |       |        |
| Charcoal - Charbon - Carbón   |   |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  |   |       |        |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |   |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  |   |       |        |
| Other - Autres - Otras  |   |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  |   |       |        |
| Own use - Consomm. propre - Uso propio  |   |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  |   |       |        |
| Distribution - Distribution - Distribución  |   |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  |   |       |        |
| <b>Final consumption - Consommation finale - Consumo final</b>  |   |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  | <b>Final consumption - Consommation finale - Consumo final</b>  |       |        |
| Total - Total - Total   |   |                             |  |                                 |  |                                   |   |   | 28 669                          |                             |  |                               |  | 2 590   | 9     | 31 268 |
| Industry - Industrie - Industria  |   |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  | 3   |       |        |
| Transport - Transport - Transporte  |   |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  |   |       |        |
| Commerce - Commerce - Comercial   |   |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  |   |       | 1      |
| Residential - Résidentiel - Residencial   |   |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  | 2 590   | 5     | 31 265 |
| Other - Autres - Otros  |   |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  | 0   |       | 0      |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |   |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |       |        |
| Total - Total - Total   |   |                             |  | 9                               |  |                                   |   |   | 28 669                          |                             |  |                               |  | 2 590   |       | 31 268 |
| Electricity - Électricité - Electrica   |   |                             |  | 9                               |  |                                   |   |   |                                 |                             |  |                               |  |   |       | 9      |
| Heat - Chaleur - Calor  |   |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  |   |       |        |
| Direct use - Utilisation directe - Uso directo  |   |                             |  |                                 |  |                                   |   |   | 28 669                          |                             |  |                               |  | 2 590   |       | 31 259 |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |   |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |       |        |
| Electricity - Électricité - Electrica (in/en GWh)   |   |                             |  | 3                               |  |                                   |   |   |                                 |                             |  |                               |  |   |       | 3      |
| Heat - Chaleur - Calor (in/en TJ)   |   |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  |   |       |        |
| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina                                | Wind<br>Eoliennes<br>Éolica | Solar - Solaire - Solar                        |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primaires -<br>Biocombustibles primarios |                                 |                             | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Electricidad | Heat<br>Chaleur<br>Calor  | Total |        |
|   |   |                             | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás |  |                               |  |   |       |        |
|   | <b>Primary energy - Énergie primaire - Energía primaria</b> |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  |   |       |        |
| Production - Production - Generación  |   |                             |  | 12                              |  |                                   |   |   |                                 |                             | 34 001   |                               |  |   |       | 34 013 |
| Imports - Importations - Importaciones  |   |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  |   |       | - 3    |
| Exports - Exportations - Exportaciones  |   |                             |  | 12                              |  |                                   |   |   |                                 |                             | 34 001   |                               |  |   |       | 34 010 |
| Stock - Stocks - Inventario (+/-)   |   |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  |   |       | - 1    |
| <b>Supply - Approvisionnement - Oferta</b>  |   |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  |   |       |        |
| Differences - Ecarts - Diferencias  |   |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  |   |       |        |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |   |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |       |        |
| Electricity - Électricité - Electrica   |   |                             |  | - 12                            |  |                                   |   |   |                                 |                             |  |                               |  |   |       |        |
| CHP - Cogénération - Cogeneración   |   |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  |   |       |        |
| Heat - Chaleur - Calor  |   |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  |   |       |        |
| Charcoal - Charbon - Carbón   |   |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  |   |       |        |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |   |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  |   |       |        |
| Other - Autres - Otras  |   |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  |   |       |        |
| Own use - Consomm. propre - Uso propio  |   |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  |   |       |        |
| Distribution - Distribution - Distribución  |   |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  |   |       |        |
| <b>Final consumption - Consommation finale - Consumo final</b>  |   |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  | <b>Final consumption - Consommation finale - Consumo final</b>  |       |        |
| Total - Total - Total   |   |                             |  |                                 |  |                                   |   |   | 28 399                          |                             |  |                               |  | 2 533   | 11    | 30 942 |
| Industry - Industrie - Industria  |   |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  | 3   |       |        |
| Transport - Transport - Transporte  |   |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  |   |       |        |
| Commerce - Commerce - Comercial   |   |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  | 2 533   | 6     | 30 938 |
| Residential - Résidentiel - Residencial   |   |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  | 0   |       | 0      |
| Other - Autres - Otros  |   |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  |   |       |        |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |   |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |       |        |
| Total - Total - Total   |   |                             |  | 11                              |  |                                   |   |   | 28 399                          |                             |  |                               |  | 2 533   |       | 30 942 |
| Electricity - Électricité - Electrica   |   |                             |  | 11                              |  |                                   |   |   |                                 |                             |  |                               |  |   |       | 11     |
| Heat - Chaleur - Calor  |   |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  |   |       |        |
| Direct use - Utilisation directe - Uso directo  |   |                             |  |                                 |  |                                   |   |   | 28 399                          |                             |  |                               |  | 2 533   |       | 30 932 |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |   |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |       |        |
| Electricity - Électricité - Electrica (in/en GWh)   |   |                             |  | 3                               |  |                                   |   |   |                                 |                             |  |                               |  |   |       | 3      |
| Heat - Chaleur - Calor (in/en TJ)   |   |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  |   |       |        |

## Guyana

## Guyana

| 22 (in/en)  | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                        |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios - Biocombustibles primarios |                                 |                             | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total        |
|---|------------------------------|----------------------------|--|---------------------------------|--|-----------------------------------|---|--|---------------------------------|-----------------------------|--|-------------------------------|---|--------------------------|--------------|
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos  | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás |  |                               |   |                          |              |
| <b>Primary energy - Énergie primaire - Energía primaria</b>   |                              |                            |  |                                 |  |                                   |   |  |                                 |                             |  |                               |   |                          |              |
| Production  | 15                           | 2                          | 52   |                                 |  |                                   |   | 7 203  | 0                               |                             |  | 15                            |   |                          | 7 272        |
| Imports - Importations - Importaciones  |                              |                            |  |                                 |  |                                   |   | - 91   |                                 |                             |  | - 31                          |   |                          | 15           |
| Exports - Exportations - Exportaciones  |                              |                            |  |                                 |  |                                   |   | <b>7 112</b>   | <b>0</b>                        |                             |  | <b>- 15</b>                   |   |                          | <b>- 122</b> |
| Stock - Stock   |                              |                            |  |                                 |  |                                   |   | <b>- 723</b>   |                                 |                             |  | <b>16</b>                     |   |                          | <b>- 722</b> |
| <b>Supply - A</b>   | <b>15</b>                    | <b>2</b>                   | <b>52</b>                                      |                                 |  |                                   |   |  |                                 |                             |  | <b>- 16</b>                   |   |                          | <b>7 165</b> |
| Differences   |                              |                            |  |                                 |  |                                   |   |  |                                 |                             |  |                               |   |                          |              |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |                                 |  |                                   |   |  |                                 |                             |  |                               |   |                          |              |
| Electricity   | - 15                         | - 2                        | - 52   |                                 |  |                                   |   | - 228  |                                 |                             |  | 117                           |   |                          | - 179        |
| CHP - Cogé  |                              |                            |  |                                 |  |                                   |   | - 687  |                                 |                             |  | 211                           |   |                          | - 476        |
| Heat - Chal   |                              |                            |  |                                 |  |                                   |   | - 89   |                                 |                             |  | 42                            |   |                          | - 47         |
| Charcoal -  |                              |                            |  |                                 |  |                                   |   |  |                                 |                             |  |                               | - 5                                     |                          |              |
| Pellets/brid  |                              |                            |  |                                 |  |                                   |   |  |                                 |                             |  |                               | - 64                                    |                          |              |
| Other - Aut   |                              |                            |  |                                 |  |                                   |   |  |                                 |                             |  |                               |   | - 5                      |              |
| Own use - Util  |                              |                            |  |                                 |  |                                   |   |  |                                 |                             |  |                               |   |                          |              |
| Distribution  |                              |                            |  |                                 |  |                                   |   |  |                                 |                             |  |                               |   |                          | - 64         |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |                                 |  |                                   |   |  |                                 |                             |  |                               |   |                          |              |
| Total - Tot   |                              |                            |  |                                 |  |                                   |   | <b>5 386</b>   | <b>0</b>                        |                             |  | <b>43</b>                     | <b>243</b>                              |                          | <b>5 672</b> |
| Industry - Ind  |                              |                            |  |                                 |  |                                   |   | 4 322  | 0                               |                             |  | 2                             | 91                                      |                          | 4 415        |
| Transport - Trans   |                              |                            |  |                                 |  |                                   |   |  | 0                               |                             |  |                               |   |                          | 0            |
| Commerce - Com  |                              |                            |  |                                 |  |                                   |   | 1 063  | 0                               |                             |  | 41                            | 40                                      |                          | 40           |
| Residential - Res   |                              |                            |  |                                 |  |                                   |   |  |                                 |                             |  |                               | 104                                     |                          | 1 208        |
| Other - Aut   |                              |                            |  |                                 |  |                                   |   |  |                                 |                             |  |                               | 9                                       |                          | 9            |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |                                 |  |                                   |   |  |                                 |                             |  |                               |   |                          |              |
| Total - Tot   | 11                           | 1                          | 38   |                                 |  |                                   |   | <b>5 578</b>   | <b>0</b>                        |                             |  | <b>43</b>                     |   |                          | <b>5 672</b> |
| Electricity   | 11                           | 1                          | 38   |                                 |  |                                   |   | 193  |                                 |                             |  |                               |   |                          | <b>243</b>   |
| Heat - Chal   |                              |                            |  |                                 |  |                                   |   |  |                                 |                             |  |                               |   |                          |              |
| Direct use  |                              |                            |  |                                 |  |                                   |   | 5 386  | 0                               |                             |  | 43                            |   |                          | <b>5 429</b> |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |                                 |  |                                   |   |  |                                 |                             |  |                               |   |                          |              |
| Electricity   | 4                            | 0                          | 14   |                                 |  |                                   |   | 72   |                                 |                             |  |                               |   |                          | 91           |
| Heat - Cha  |                              |                            |  |                                 |  |                                   |   |  |                                 |                             |  |                               |   |                          |              |
| 21 (in/en)  | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                        |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios - Biocombustibles primarios |                                 |                             | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total        |
| 21 (in/en)  | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Solids - Solides<br>- Sólidos  | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás |  |                               |   |                          |              |
|   |                              |                            |  |                                 |  |                                   |   |  |                                 |                             |  |                               |   |                          |              |
| <b>Primary energy - Énergie primaire - Energía primaria</b>   |                              |                            |  |                                 |  |                                   |   |  |                                 |                             |  |                               |   |                          |              |
| Production  | 15                           | 2                          | 46   |                                 |  |                                   |   | 7 143  | 0                               |                             |  | 16                            |   |                          | 7 205        |
| Imports - Importations - Importaciones  |                              |                            |  |                                 |  |                                   |   | - 93   |                                 |                             |  | - 31                          |   |                          | 16           |
| Exports - Exportations - Exportaciones  |                              |                            |  |                                 |  |                                   |   | <b>7 049</b>   | <b>0</b>                        |                             |  | <b>- 16</b>                   |   |                          | <b>- 124</b> |
| Stock - Stock   |                              |                            |  |                                 |  |                                   |   | <b>0</b>   |                                 |                             |  | <b>16</b>                     |   |                          | <b>7 096</b> |
| <b>Supply - A</b>   | <b>15</b>                    | <b>2</b>                   | <b>46</b>                                      |                                 |  |                                   |   |  |                                 |                             |  | <b>- 16</b>                   |   |                          | <b>16</b>    |
| Differences   |                              |                            |  |                                 |  |                                   |   |  |                                 |                             |  |                               |   |                          |              |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |                                 |  |                                   |   |  |                                 |                             |  |                               |   |                          |              |
| Electricity   | - 15                         | - 2                        | - 46   |                                 |  |                                   |   | - 228  |                                 |                             |  | 111                           |   |                          | - 179        |
| CHP - Cogé  |                              |                            |  |                                 |  |                                   |   | - 685  |                                 |                             |  | 211                           |   |                          | - 474        |
| Heat - Chal   |                              |                            |  |                                 |  |                                   |   | - 103  |                                 |                             |  | 42                            |   |                          | - 61         |
| Charcoal -  |                              |                            |  |                                 |  |                                   |   |  |                                 |                             |  |                               | - 5                                     |                          |              |
| Pellets/brid  |                              |                            |  |                                 |  |                                   |   |  |                                 |                             |  |                               | - 62                                    |                          |              |
| Other - Aut   |                              |                            |  |                                 |  |                                   |   |  |                                 |                             |  |                               |   | - 5                      |              |
| Own use - Util  |                              |                            |  |                                 |  |                                   |   |  |                                 |                             |  |                               |   |                          |              |
| Distribution  |                              |                            |  |                                 |  |                                   |   |  |                                 |                             |  |                               |   |                          |              |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |                                 |  |                                   |   |  |                                 |                             |  |                               |   |                          |              |
| Total - Tot   |                              |                            |  |                                 |  |                                   |   | <b>6 033</b>   | <b>0</b>                        |                             |  | <b>42</b>                     | <b>255</b>                              |                          | <b>6 330</b> |
| Industry - Ind  |                              |                            |  |                                 |  |                                   |   | 5 077  | 0                               |                             |  | 2                             | 94                                      |                          | 5 173        |
| Transport - Trans   |                              |                            |  |                                 |  |                                   |   |  |                                 |                             |  |                               |   |                          | 0            |
| Commerce - Com  |                              |                            |  |                                 |  |                                   |   | 956  | 0                               |                             |  | 40                            | 43                                      |                          | 43           |
| Residential - Res   |                              |                            |  |                                 |  |                                   |   |  |                                 |                             |  |                               | 108                                     |                          | 1 104        |
| Other - Aut   |                              |                            |  |                                 |  |                                   |   |  |                                 |                             |  |                               | 10                                      |                          | 10           |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |                                 |  |                                   |   |  |                                 |                             |  |                               |   |                          |              |
| Total - Tot   | 12                           | 1                          | 36   |                                 |  |                                   |   | <b>6 239</b>   | <b>0</b>                        |                             |  | <b>42</b>                     |   |                          | <b>6 330</b> |
| Electricity   | 12                           | 1                          | 36   |                                 |  |                                   |   | 205  |                                 |                             |  |                               |   |                          | <b>255</b>   |
| Heat - Cha  |                              |                            |  |                                 |  |                                   |   |  |                                 |                             |  |                               |   |                          |              |
| Direct use  |                              |                            |  |                                 |  |                                   |   | 6 033  | 0                               |                             |  | 42                            |   |                          | <b>6 076</b> |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |                                 |  |                                   |   |  |                                 |                             |  |                               |   |                          |              |
| Electricity   | 4                            | 0                          | 13   |                                 |  |                                   |   | 72   |                                 |                             |  |                               |   |                          | 89           |
| Heat - Cha  |                              |                            |  |                                 |  |                                   |   |  |                                 |                             |  |                               |   |                          |              |

Haiti

Haiti

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                        |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                             |  | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Carbon<br>Carbón | Electricity<br>Electricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total         |
|---|------------------------------|----------------------------|--|---------------------------------|-------------------------------|--|-----------------------------------|---|---|-----------------------------|--|--|------------------------------|---|--------------------------|---------------|
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Solidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás |  |  |                              |   |                          |               |
| <b>Primary energy - Énergie primaire - Energía primaria</b>   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                              |   |                          |               |
| Production - Production - Generación  | 721                          | 0                          | 15   |                                 |                               |  |                                   |   | 24 515  |                             |  |  |                              | 1                                       |                          | 25 252        |
| Imports - Importations - Importaciones  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                              | - 3                                     |                          | 1             |
| Exports - Exportations - Exportaciones  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                              |   |                          | - 3           |
| Stock - Stocks - Inventario (+/-)   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                              |   |                          |               |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>721</b>                   | <b>0</b>                   | <b>15</b>                                      |                                 |                               |  |                                   |   | <b>24 515</b>   |                             |  |  |                              | <b>- 2</b>                              |                          | <b>25 250</b> |
| Differences - écarts - Diferencias  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                              |   |                          | 161           |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                              |   |                          |               |
| Electricity - Électricité - Electrica   | - 721                        | - 0                        | - 15   |                                 |                               |  |                                   |   | - 2 721   |                             |  |  |                              | 736                                     |                          |               |
| CHP - Cogénération - Cogeneración   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                              |   |                          |               |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                              |   |                          |               |
| Charcoal - Charbon - Carbón   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                              |   |                          |               |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                              |   |                          |               |
| Other - Autres - Otras  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                              |   |                          |               |
| Own use - Consomm. propre - Uso propio  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                              | - 12                                    |                          | - 12          |
| Distribution - Distribution - Distribución  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                              | - 438                                   |                          | - 438         |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                              |   |                          |               |
| <b>Total - Total - Total</b>  |                              |                            |  |                                 |                               |  |                                   |   | <b>21 794</b>   |                             |  |  |                              | <b>1230</b>                             | <b>460</b>               | <b>23 484</b> |
| Industry - Industrie - Industria  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                              | 133                                     |                          |               |
| Transport - Transport - Transporte  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                              |   |                          |               |
| Commerce - Commerce - Comercial   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                              |   |                          |               |
| Residential - Résidentiel - Residencial   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                              | 615                                     | 27                       | 11 539        |
| Other - Autres - Otros  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                              | 615                                     | 137                      | 11 649        |
|   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                              | 164                                     |                          |               |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                              |   |                          |               |
| <b>Total - Total - Total</b>  | <b>450</b>                   | <b>0</b>                   | <b>10</b>                                      |                                 |                               |  |                                   |   | <b>21 794</b>   |                             |  |  |                              | <b>1230</b>                             | <b>460</b>               | <b>23 484</b> |
| Electricity - Électricité - Electrica   | 450                          | 0                          | 10   |                                 |                               |  |                                   |   |   |                             |  |  |                              |   |                          | 460           |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                              |   |                          |               |
| Direct use - Utilisation directe - Uso directo  |                              |                            |  |                                 |                               |  |                                   |   | 21 794  |                             |  |  |                              | 1230                                    |                          | 23 024        |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                              |   |                          |               |
| Electricity - Électricité - Electrica (in/en GWh)   | 200                          | 0                          | 4  |                                 |                               |  |                                   |   |   |                             |  |  |                              |   |                          | 205           |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                              |   |                          |               |
| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                        |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                             |  | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Carbon<br>Carbón | Electricity<br>Electricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total         |
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Solidos | Liquid - Liquides<br>- Líquidos          | Biogas - Biogaz<br>- Biogás       |   |   |                             |  |  |                              |   |                          |               |
| <b>Primary energy - Énergie primaire - Energía primaria</b>   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                              |   |                          |               |
| Production - Production - Generación  | 721                          | 0                          | 17   |                                 |                               |  |                                   |   | 32 519  |                             |  |  |                              | - 0                                     |                          | 33 258        |
| Imports - Importations - Importaciones  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                              |   |                          | - 0           |
| Exports - Exportations - Exportaciones  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                              |   |                          |               |
| Stock - Stocks - Inventario (+/-)   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                              |   |                          |               |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>721</b>                   | <b>0</b>                   | <b>17</b>                                      |                                 |                               |  |                                   |   | <b>32 519</b>   |                             |  |  |                              | <b>- 0</b>                              |                          | <b>33 257</b> |
| Differences - écarts - Diferencias  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                              |   |                          | 151           |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                              |   |                          |               |
| Electricity - Électricité - Electrica   | - 721                        | - 0                        | - 17   |                                 |                               |  |                                   |   | - 2 617   |                             |  |  |                              | 739                                     |                          |               |
| CHP - Cogénération - Cogeneración   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                              |   |                          |               |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                              |   |                          |               |
| Charcoal - Charbon - Carbón   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                              |   |                          |               |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                              |   |                          |               |
| Other - Autres - Otras  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                              | - 11                                    |                          | - 11          |
| Own use - Consomm. propre - Uso propio  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                              | - 410                                   |                          | - 410         |
| Distribution - Distribution - Distribución  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                              |   |                          |               |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                              |   |                          |               |
| <b>Total - Total - Total</b>  |                              |                            |  |                                 |                               |  |                                   |   | <b>29 902</b>   |                             |  |  |                              | <b>1185</b>                             | <b>430</b>               | <b>31 516</b> |
| Industry - Industrie - Industria  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                              | 124                                     |                          |               |
| Transport - Transport - Transporte  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                              |   |                          |               |
| Commerce - Commerce - Comercial   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                              |   |                          |               |
| Residential - Résidentiel - Residencial   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                              | 592                                     | 25                       | 15 568        |
| Other - Autres - Otros  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                              | 592                                     | 128                      | 15 671        |
|   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                              | 153                                     |                          |               |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                              |   |                          |               |
| <b>Total - Total - Total</b>  | <b>420</b>                   | <b>0</b>                   | <b>10</b>                                      |                                 |                               |  |                                   |   | <b>29 902</b>   |                             |  |  |                              | <b>1185</b>                             | <b>430</b>               | <b>31 516</b> |
| Electricity - Électricité - Electrica   | 420                          | 0                          | 10   |                                 |                               |  |                                   |   |   |                             |  |  |                              |   |                          | 430           |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                              |   |                          |               |
| Direct use - Utilisation directe - Uso directo  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                              | 1185                                    |                          | 31 086        |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                              |   |                          |               |
| Electricity - Électricité - Electrica (in/en GWh)   | 200                          | 0                          | 5  |                                 |                               |  |                                   |   |   |                             |  |  |                              |   |                          | 205           |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                              |   |                          |               |

## Honduras

## Honduras

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                        |                                 |   | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |  |  | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total          |
|---|------------------------------|----------------------------|--|---------------------------------|---|--|-----------------------------------|---|---|--|--|--|-------------------------------|---|--------------------------|----------------|
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>Liquid - Liquides<br>- Líquidos |  |                                   |   | Biogas - Biogaz<br>- Biogás   |  |  |  |                               |   |                          |                |
| <b>Primary energy - Énergie primaire - Energía primaria</b>   |                              |                            |  |                                 |   |  |                                   |   |   |  |  |  |                               |   |                          |                |
| Production - Production - Generación  | 13 962                       | 2 481                      | 3 509  |                                 | 12 782  |  |                                   |   | 84 989  |  |  |  |                               | 440                                     | - 11                     | 117 723        |
| Imports - Importations - Importaciones  |                              |                            |  |                                 |   |  |                                   |   |   |  |  |  |                               |   |                          | 440            |
| Exports - Exportations - Exportaciones  |                              |                            |  |                                 |   |  |                                   |   |   |  |  |  |                               |   |                          | - 11           |
| Stock - Stocks - Inventario (+/-)   |                              |                            |  |                                 |   |  |                                   |   |   |  |  |  |                               |   |                          |                |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>13 962</b>                | <b>2 481</b>               | <b>3 509</b>                                   |                                 | <b>12 782</b>                                       |  |                                   |   | <b>84 989</b>   |  |  |  |                               | <b>429</b>                              | <b>1077</b>              | <b>118 152</b> |
| <i>Differences - Ecarts - Diferencias</i>   |                              |                            |  |                                 |   |  |                                   |   | <i>- 0</i>  |  |  |  |                               |   |                          | <b>1 076</b>   |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |                                 |   |  |                                   |   |   |  |  |  |                               |   |                          |                |
| Electricity - Electricité - Electrica   | - 13 962                     | - 2 481                    | - 3 509  |                                 | - 12 782  |  |                                   |   | - 175   |  |  |  |                               | 22 596                                  |                          | - 10 314       |
| CHP - Cogénération - Cogeneración   |                              |                            |  |                                 |   |  |                                   |   | - 16 786  |  |  |  |                               | 1 470                                   |                          | - 15 316       |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |   |  |                                   |   | - 16  |  |  |  |                               | 5                                       |                          | - 12           |
| Charcoal - Charbon - Carbón   |                              |                            |  |                                 |   |  |                                   |   |   |  |  |  |                               |   |                          |                |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |  |                                 |   |  |                                   |   |   |  |  |  |                               | - 348                                   |                          | - 348          |
| Other - Autres - Otras  |                              |                            |  |                                 |   |  |                                   |   |   |  |  |  |                               | - 8 073                                 |                          | - 8 073        |
| Own use - Consomm. propre - Uso propio  |                              |                            |  |                                 |   |  |                                   |   |   |  |  |  |                               |   |                          |                |
| Distribution - Distribution - Distribución  |                              |                            |  |                                 |   |  |                                   |   |   |  |  |  |                               |   |                          |                |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |                                 |   |  |                                   |   |   |  |  |  |                               |   |                          |                |
| <b>Total - Total - Total</b>  |                              |                            |  |                                 |   |  |                                   |   | <b>68 011</b>   |  |  |  |                               | <b>5</b>                                | <b>17 150</b>            | <b>85 166</b>  |
| Industry - Industrie - Industria  |                              |                            |  |                                 |   |  |                                   |   | 7 306   |  |  |  |                               | 6 123                                   |                          | 13 429         |
| Transport - Transport - Transporte  |                              |                            |  |                                 |   |  |                                   |   | 3 327   |  |  |  |                               | 4 699                                   |                          | 8 027          |
| Commerce - Commerce - Comercial   |                              |                            |  |                                 |   |  |                                   |   | 57 377  |  |  |  |                               | 6 328                                   |                          | 63 710         |
| Residential - Résidentiel - Residencial   |                              |                            |  |                                 |   |  |                                   |   |   |  |  |  |                               |   |                          |                |
| Other - Autres - Otros  |                              |                            |  |                                 |   |  |                                   |   |   |  |  |  |                               |   |                          |                |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |                                 |   |  |                                   |   |   |  |  |  |                               |   |                          |                |
| <b>Total - Total - Total</b>  | <b>9 950</b>                 | <b>1 768</b>               | <b>2 501</b>                                   |                                 | <b>865</b>  |  |                                   |   | <b>70 056</b>   |  |  |  |                               | <b>5</b>                                | <b>17 150</b>            | <b>85 166</b>  |
| Electricity - Electricité - Electrica   | 9 950                        | 1 768                      | 2 501  |                                 | 865   |  |                                   |   | 2 045   |  |  |  |                               |   |                          | 17 150         |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |   |  |                                   |   | 68 011  |  |  |  |                               |   |                          |                |
| Direct use - Utilisation directe - Uso directo  |                              |                            |  |                                 |   |  |                                   |   |   |  |  |  |                               |   |                          | <b>68 015</b>  |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |                                 |   |  |                                   |   |   |  |  |  |                               |   |                          |                |
| Electricity - Electricité - Electrica (in/en GWh)   | 3 878                        | 689                        | 975  |                                 | 337   |  |                                   |   | 797   |  |  |  |                               | 8                                       |                          | 6 685          |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |  |                                 |   |  |                                   |   |   |  |  |  |                               |   |                          |                |

| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                        |                                 |   | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |  |  | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total          |
|---|------------------------------|----------------------------|--|---------------------------------|---|--|-----------------------------------|---|---|--|--|--|-------------------------------|---|--------------------------|----------------|
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>Liquid - Liquides<br>- Líquidos |  |                                   |   | Biogas - Biogaz<br>- Biogás   |  |  |  |                               |   |                          |                |
| <b>Primary energy - Énergie primaire - Energía primaria</b>   |                              |                            |  |                                 |   |  |                                   |   |   |  |  |  |                               |   |                          |                |
| Production - Production - Generación  | 13 537                       | 2 801                      | 3 915  |                                 | 13 199  |  |                                   |   | 85 485  |  |  |  |                               | 476                                     | - 6                      | 118 938        |
| Imports - Importations - Importaciones  |                              |                            |  |                                 |   |  |                                   |   |   |  |  |  |                               |   |                          | 476            |
| Exports - Exportations - Exportaciones  |                              |                            |  |                                 |   |  |                                   |   |   |  |  |  |                               |   |                          | - 6            |
| Stock - Stocks - Inventario (+/-)   |                              |                            |  |                                 |   |  |                                   |   |   |  |  |  |                               |   |                          |                |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>13 537</b>                | <b>2 801</b>               | <b>3 915</b>                                   |                                 | <b>13 199</b>                                       |  |                                   |   | <b>85 485</b>   |  |  |  |                               | <b>470</b>                              | <b>1 088</b>             | <b>119 408</b> |
| <i>Differences - Ecarts - Diferencias</i>   |                              |                            |  |                                 |   |  |                                   |   | <i>0</i>  |  |  |  |                               |   |                          | <b>1 089</b>   |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |                                 |   |  |                                   |   |   |  |  |  |                               |   |                          |                |
| Electricity - Electricité - Electrica   | - 13 537                     | - 2 801                    | - 3 915  |                                 | - 13 199  |  |                                   |   | - 100   |  |  |  |                               | 22 933                                  |                          | - 10 620       |
| CHP - Cogénération - Cogeneración   |                              |                            |  |                                 |   |  |                                   |   | - 16 828  |  |  |  |                               | 1 468                                   |                          | - 15 361       |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |   |  |                                   |   | - 91  |  |  |  |                               | 26                                      |                          | - 64           |
| Charcoal - Charbon - Carbón   |                              |                            |  |                                 |   |  |                                   |   |   |  |  |  |                               |   |                          |                |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |  |                                 |   |  |                                   |   |   |  |  |  |                               | - 255                                   |                          | - 255          |
| Other - Autres - Otras  |                              |                            |  |                                 |   |  |                                   |   |   |  |  |  |                               | - 7 658                                 |                          | - 7 658        |
| Own use - Consomm. propre - Uso propio  |                              |                            |  |                                 |   |  |                                   |   |   |  |  |  |                               |   |                          |                |
| Distribution - Distribution - Distribución  |                              |                            |  |                                 |   |  |                                   |   |   |  |  |  |                               |   |                          |                |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |                                 |   |  |                                   |   |   |  |  |  |                               |   |                          |                |
| <b>Total - Total - Total</b>  |                              |                            |  |                                 |   |  |                                   |   | <b>68 467</b>   |  |  |  |                               | <b>26</b>                               | <b>18 045</b>            | <b>86 539</b>  |
| Industry - Industrie - Industria  |                              |                            |  |                                 |   |  |                                   |   | 5 735   |  |  |  |                               | 6 026                                   |                          | 11 761         |
| Transport - Transport - Transporte  |                              |                            |  |                                 |   |  |                                   |   | 3 438   |  |  |  |                               | 4 974                                   |                          | 8 412          |
| Commerce - Commerce - Comercial   |                              |                            |  |                                 |   |  |                                   |   | 59 294  |  |  |  |                               | 7 045                                   |                          | 66 365         |
| Residential - Résidentiel - Residencial   |                              |                            |  |                                 |   |  |                                   |   |   |  |  |  |                               |   |                          |                |
| Other - Autres - Otros  |                              |                            |  |                                 |   |  |                                   |   |   |  |  |  |                               |   |                          |                |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |                                 |   |  |                                   |   |   |  |  |  |                               |   |                          |                |
| <b>Total - Total - Total</b>  | <b>10 011</b>                | <b>2 072</b>               | <b>2 896</b>                                   |                                 | <b>927</b>  |  |                                   |   | <b>70 595</b>   |  |  |  |                               | <b>26</b>                               |                          | <b>86 539</b>  |
| Electricity - Electricité - Electrica   | 10 011                       | 2 072                      | 2 896  |                                 | 927   |  |                                   |   | 2 127   |  |  |  |                               |   |                          | 18 045         |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |   |  |                                   |   | 68 467  |  |  |  |                               |   |                          | <b>68 493</b>  |
| Direct use - Utilisation directe - Uso directo  |                              |                            |  |                                 |   |  |                                   |   |   |  |  |  |                               |   |                          |                |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |                                 |   |  |                                   |   |   |  |  |  |                               |   |                          |                |
| Electricity - Electricité - Electrica (in/en GWh)   | 3 760                        | 778                        | 1 088  |                                 | 348   |  |                                   |   | 799   |  |  |  |                               | 5                                       |                          | 6 778          |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |  |                                 |   |  |                                   |   |   |  |  |  |                               |   |                          |                |

## Hungary

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                              |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                             |              | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Carbon<br>Carbon | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total          |
|---|------------------------------|----------------------------|--|---------------------------------|-------------------------------|--|-----------------------------------|---|---|-----------------------------|--------------|--|------------------------------|---|--------------------------|----------------|
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica       | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás |              |  |                              |   |                          |                |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaria |                                 |                               |  |                                   |   | Primary energy - Énergie primaire - Energía primaria                        |                             |              |  |                              |   |                          |                |
| Production - Production - Generación  | 641                          | 2 196                      | 17 035   | 669                             | 6 938                         | 3 127                                    | 2 388                             | 894   | 87 534  | 20 361                      | 4 053        | 333  |                              | 16 646                                  |                          | 144 942        |
| Imports - Importations - Importaciones  |                              |                            |  |                                 |                               |  | 2 853                             |   |   | 8 350                       |              | - 209  |                              | - 7 276                                 |                          | 29 075         |
| Exports - Exportations - Exportaciones  |                              |                            |  |                                 |                               |  | - 1 924                           |   | - 15 830  |                             |              |  |                              |   |                          | - 25 239       |
| Stock - Stocks - Inventario (+/-)   |                              |                            |  |                                 |                               |  |                                   |   | - 140   |                             |              |  |                              |   |                          | - 140          |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>641</b>                   | <b>2 196</b>               | <b>17 035</b>  | <b>669</b>                      | <b>6 938</b>                  | <b>3 127</b>                             | <b>3 282</b>                      |   | <b>88 463</b>   | <b>12 740</b>               | <b>4 053</b> | <b>124</b>                                       |                              | <b>9 369</b>                            |                          | <b>148 637</b> |
| Differences - Ecarts - Diferencias  |                              |                            |  |                                 |                               |  |                                   |   | - 188   |                             |              |  |                              | - 544                                   |                          | - 694          |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |              |  |                              |   |                          |                |
| Electricity - Électricité - Electrica   | - 641                        | - 2 196                    | - 17 035   |                                 | - 155                         |  | - 126                             | - 2 391                                     | - 8 531   |                             | - 384        |  |                              | 22 284                                  |                          | - 6 784        |
| CHP - Cogénération - Cogeneración   |                              |                            |  |                                 | - 3 440                       |  |                                   |   | - 12 731  |                             | - 1 831      |  |                              | 5 299                                   |                          | - 8 180        |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |                               |  |                                   |   | - 1 613   |                             | - 2          |  |                              |   |                          | - 539          |
| Charcoal - Charbon - Carbón   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |              | 143  |                              |   |                          |                |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |              |  |                              |   |                          | - 28           |
| Other - Autres - Otras  |                              |                            |  |                                 |                               |  |                                   |   |   |                             | - 698        |  |                              | - 2 358                                 |                          | - 3 536        |
| Own use - Consomm. propre - Uso propio  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |              |  |                              | - 2 144                                 |                          | - 2 788        |
| Distribution - Distribution - Distribución  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |              |  |                              | - 643                                   |                          |                |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |              |  |                              |   |                          |                |
| Total - Total - Total   |                              |                            |  | 669                             | <b>3 343</b>                  | <b>3 127</b>                             | <b>765</b>                        |   | <b>65 445</b>   | <b>12 740</b>               | <b>950</b>   | <b>267</b>                                       |                              | <b>31 879</b>                           | <b>6 829</b>             | <b>126 013</b> |
| Industry - Industrie - Industria  |                              |                            |  |                                 | 75                            | 465                                      | 765                               |   | 10 817  |                             |              |  |                              | 14 037                                  | 2 498                    | 29 454         |
| Transport - Transport - Transporte  |                              |                            |  | 12                              | 1 399                         | 1 434                                    |                                   |   |   | 12 740                      |              |  |                              | 1 008                                   |                          | 13 747         |
| Commerce - Commerce - Comercial   |                              |                            |  | 657                             |                               | 1 228                                    |                                   |   | 867   |                             |              |  |                              | 6 500                                   | 1 043                    | 11 380         |
| Residential - Résidentiel - Residencial   |                              |                            |  |                                 | 1 869                         |  |                                   |   | 53 278  |                             |              |  |                              | 9 521                                   | 3 265                    | 68 202         |
| Other - Autres - Otros  |                              |                            |  |                                 |                               |  |                                   |   | 483   |                             |              |  |                              | 813                                     | 22                       | 3 230          |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |              |  |                              |   |                          |                |
| Total - Total - Total   | <b>741</b>                   | <b>2 538</b>               | <b>19 688</b>  | <b>669</b>                      | <b>6 037</b>                  | <b>3 127</b>                             | <b>2 027</b>                      |   | <b>75 820</b>   | <b>12 740</b>               | <b>2 359</b> | <b>267</b>                                       |                              |   |                          | <b>126 013</b> |
| Electricity - Électricité - Electrica   | 741                          | 2 538                      | 19 688   |                                 | 17                            |  |                                   |   | 7 044   |                             | 1 311        |  |                              |   |                          | <b>31 879</b>  |
| Heat - Chaleur - Calor  |                              |                            |  |                                 | 2 678                         |  |                                   |   | 3 331   |                             | 98           |  |                              |   |                          | <b>6 829</b>   |
| Direct use - Utilisation directe - Uso directo  |                              |                            |  | 669                             | 3 343                         | 3 127                                    | 765                               |   | 65 445  | 12 740                      | 950          | 267  |                              |   |                          | <b>87 306</b>  |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |                                 |                               |  |                                   |   |   |                             |              |  |                              |   |                          |                |
| Electricity - Électricité - Electrica (in/en GWh)   | 178                          | 610                        | 4 732  |                                 | 4                             |  |                                   |   | 1 693   |                             | 315          |  |                              |   |                          | <b>7 662</b>   |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |  |                                 | 3 133                         |  |                                   |   | 3 898   |                             | 115          |  |                              |   |                          | <b>7 990</b>   |
| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                              |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                             |              | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Carbon<br>Carbon | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total          |
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica       | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás |              |  |                              |   |                          |                |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaria |                                 |                               |  |                                   |   | Primary energy - Énergie primaire - Energía primaria                        |                             |              |  |                              |   |                          |                |
| Production - Production - Generación  | 763                          | 2 390                      | 13 666   | 650                             | 6 560                         | 1 111                                    | 2 617                             | 784   | 91 576  | 20 624                      | 3 545        | 271  |                              | 13 761                                  |                          | 143 503        |
| Imports - Importations - Importaciones  |                              |                            |  |                                 |                               |  | 1 097                             |   | 7 683   |                             |              |  |                              | - 4 971                                 |                          | 23 596         |
| Exports - Exportations - Exportaciones  |                              |                            |  |                                 |                               |  | - 1 185                           |   | - 16 391  |                             |              |  |                              |   |                          | - 22 746       |
| Stock - Stocks - Inventario (+/-)   |                              |                            |  |                                 |                               |  |                                   |   | 16  |                             |              |  |                              |   |                          | 16             |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>763</b>                   | <b>2 390</b>               | <b>13 666</b>  | <b>650</b>                      | <b>6 560</b>                  | <b>1 111</b>                             | <b>3 401</b>                      |   | <b>91 488</b>   | <b>11 932</b>               | <b>3 545</b> | <b>72</b>  |                              | <b>8 790</b>                            |                          | <b>144 368</b> |
| Differences - Ecarts - Diferencias  |                              |                            |  |                                 |                               |  |                                   |   | - 188   |                             |              |  |                              | - 712                                   |                          | - 846          |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |              |  |                              |   |                          |                |
| Electricity - Électricité - Electrica   | - 763                        | - 2 390                    | - 13 666   |                                 | - 429                         |  | - 179                             | - 2 627                                     | - 8 246   |                             | - 519        |  |                              | 19 292                                  |                          | - 6 900        |
| CHP - Cogénération - Cogeneración   |                              |                            |  |                                 | - 3 250                       |  |                                   |   | - 13 608  |                             | - 1 603      |  |                              | 5 602                                   |                          | - 8 877        |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |                               |  |                                   |   | - 1 762   |                             |              |  |                              |   |                          | - 585          |
| Charcoal - Charbon - Carbón   |                              |                            |  |                                 |                               |  |                                   |   | + 133   |                             |              | 133  |                              |   |                          | - 9            |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |  |                                 |                               |  |                                   |   |   |                             | - 632        |  |                              | - 2 110                                 |                          | - 3 192        |
| Other - Autres - Otras  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |              |  |                              | - 633                                   |                          | - 2 736        |
| Own use - Consomm. propre - Uso propio  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |              |  |                              |   |                          |                |
| Distribution - Distribution - Distribución  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |              |  |                              |   |                          |                |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |              |  |                              |   |                          |                |
| Total - Total - Total   |                              |                            |  | 650                             | <b>2 881</b>                  | <b>1 111</b>                             | <b>595</b>                        |   | <b>67 739</b>   | <b>11 932</b>               | <b>603</b>   | <b>205</b>                                       |                              | <b>28 751</b>                           | <b>6 649</b>             | <b>121 115</b> |
| Industry - Industrie - Industria  |                              |                            |  |                                 | 77                            | 130                                      | 595                               |   | 11 517  |                             | 454          |  |                              | 12 940                                  | 2 443                    | 28 156         |
| Transport - Transport - Transporte  |                              |                            |  | 11                              | 1 239                         | 145                                      |                                   |   |   | 11 932                      |              | 127  |                              | 858                                     |                          | 12 790         |
| Commerce - Commerce - Comercial   |                              |                            |  | 639                             |                               | 836                                      |                                   |   | 54 969  |                             | 193          |  |                              | 5 624                                   | 1 055                    | 9 008          |
| Residential - Résidentiel - Residencial   |                              |                            |  |                                 | 1 565                         |  |                                   |   | 458   |                             | 22           |  |                              | 8 598                                   | 3 129                    | 68 364         |
| Other - Autres - Otros  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |              |  |                              | 731                                     | 21                       | 2 797          |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |              |  |                              |   |                          |                |
| Total - Total - Total   | <b>881</b>                   | <b>2 761</b>               | <b>15 783</b>  | <b>650</b>                      | <b>5 442</b>                  | <b>1 111</b>                             | <b>1 938</b>                      |   | <b>78 486</b>   | <b>11 932</b>               | <b>1 927</b> | <b>205</b>                                       |                              |   |                          | <b>121 115</b> |
| Electricity - Électricité - Electrica   | 881                          | 2 761                      | 15 783   |                                 | 50                            |  |                                   |   | 7 380   |                             | 1 227        |  |                              |   |                          | <b>28 751</b>  |
| Heat - Chaleur - Calor  |                              |                            |  |                                 | 2 511                         |  |                                   |   | 674   |                             | 97           |  |                              |   |                          | <b>6 649</b>   |
| Direct use - Utilisation directe - Uso directo  |                              |                            |  | 650                             | 2 881                         | 1 111                                    | 595                               |   | 67 739  | 11 932                      | 603          | 205  |                              |   |                          | <b>85 716</b>  |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |                                 |                               |  |                                   |   |   |                             |              |  |                              |   |                          |                |
| Electricity - Électricité - Electrica (in/en GWh)   | 212                          | 664                        | 3 796  |                                 | 12                            |  |                                   |   | 1 775   |                             | 295          |  |                              |   |                          | <b>6 915</b>   |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |  |                                 | 2 940                         |  |                                   |   | 3 943   |                             | 114          |  |                              |   |                          | <b>7 786</b>   |

# Iceland

# Iceland

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                        |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                             |             | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Carbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total          |
|---|------------------------------|----------------------------|--|---------------------------------|-------------------------------|--|-----------------------------------|---|---|-----------------------------|-------------|--|------------------------------|---|--------------------------|----------------|
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás |             |  |                              |   |                          |                |
|   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |             |  |                              |   |                          |                |
| <b>Primary energy - Énergie primaire - Energía primaria</b>   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |             |  |                              |   |                          |                |
| Production - Production - Generación  | 51 105                       | 21                         | 20   |                                 | 172 014                       |  |                                   |   |   | 805                         |             |  |                              |   |                          | 223 159        |
| Imports - Importations - Importaciones  |                              |                            |  |                                 |                               |  |                                   |   |   | - 73                        |             |  |                              |   |                          | 805            |
| Exports - Exportations - Exportaciones  |                              |                            |  |                                 |                               |  |                                   |   |   | 732                         |             |  |                              |   |                          | + 73           |
| Stock - Stocks - Inventario (+/-)   |                              |                            |  |                                 | 172 014                       |  |                                   |   |   | 8                           |             |  |                              |   |                          | 223 891        |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>51 105</b>                | <b>21</b>                  | <b>20</b>                                      |                                 | <b>172 014</b>                |  |                                   |   |   |                             |             |  |                              |   |                          | <b>7 730</b>   |
| Differences - Ecarts - Diferencias  |                              |                            |  |                                 | 7 722                         |  |                                   |   |   |                             |             |  |                              |   |                          |                |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |             |  |                              |   |                          |                |
| Electricity - Electricité - Electrica   | - 51 105                     | - 21                       | - 20   |                                 | - 26 019                      |  |                                   |   |   |                             |             |  |                              |   |                          | - 21 642       |
| CHP - Cogénération - Cogeneración   |                              |                            |  |                                 | - 113 437                     |  |                                   |   |   |                             |             |  |                              |   |                          | - 85 138       |
| Heat - Chaleur - Calor  |                              |                            |  |                                 | - 36 335                      |  |                                   |   |   |                             |             |  |                              |   |                          | - 12 756       |
| Charcoal - Charbon - Carbón   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |             |  |                              |   |                          |                |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |             |  |                              |   |                          |                |
| Other - Autres - Otras  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |             |  |                              |   |                          |                |
| Own use - Consomm. propre - Uso propio  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |             |  |                              |   |                          |                |
| Distribution - Distribution - Distribución  |                              |                            |  |                                 | - 532                         |  |                                   |   |   |                             |             |  |                              |   |                          | - 455          |
|   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |             |  |                              |   |                          | - 2 091        |
|   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |             |  |                              |   |                          | - 1 944        |
|   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |             |  |                              |   |                          | - 3 474        |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |             |  |                              |   |                          |                |
| Total - Total - Total   |                              |                            |  |                                 | 3 413                         |  |                                   |   |   | 740                         |             |  |                              |   |                          | 103 589        |
| Industry - Industrie - Industria  |                              |                            |  |                                 | 494                           |  |                                   |   |   |                             |             |  |                              |   |                          | 55 653         |
| Transport - Transport - Transporte  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |             |  |                              |   |                          | 956            |
| Commerce - Commerce - Comercial   |                              |                            |  |                                 | 262                           |  |                                   |   |   |                             |             |  |                              |   |                          | 20 926         |
| Residential - Résidentiel - Residencial   |                              |                            |  |                                 | 505                           |  |                                   |   |   |                             |             |  |                              |   |                          | 19 413         |
| Other - Autres - Otras  |                              |                            |  |                                 | 2 152                         |  |                                   |   |   |                             |             |  |                              |   |                          | 6 642          |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |             |  |                              |   |                          |                |
| Total - Total - Total   | 47 938                       | 19                         | 18   |                                 | 54 874                        |  |                                   |   |   | 740                         |             |  |                              |   |                          | 103 589        |
| Electricity - Electricité - Electrica   | 47 938                       | 19                         | 18   |                                 | 19 978                        |  |                                   |   |   |                             |             |  |                              |   |                          | 67 953         |
| Heat - Chaleur - Calor  |                              |                            |  |                                 | 31 483                        |  |                                   |   |   |                             |             |  |                              |   |                          | 31 483         |
| Direct use - Utilisation directe - Uso directo  |                              |                            |  |                                 | 3 413                         |  |                                   |   |   |                             |             |  |                              |   |                          | 4 153          |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |                                 |                               |  |                                   |   |   |                             |             |  |                              |   |                          |                |
| Electricity - Electricité - Electrica (in/en GWh)   | 14 196                       | 6                          | 5  |                                 | 5 916                         |  |                                   |   |   |                             |             |  |                              |   |                          | 20 123         |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |  |                                 | 34 957                        |  |                                   |   |   |                             |             |  |                              |   |                          | 34 957         |
| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                        |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                             |             | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Carbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total          |
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás |             |  |                              |   |                          |                |
|   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |             |  |                              |   |                          |                |
| <b>Primary energy - Énergie primaire - Energía primaria</b>   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |             |  |                              |   |                          |                |
| Production - Production - Generación  | 49 694                       | 22                         | 20   |                                 | 167 684                       |  |                                   |   |   |                             | 1125        |  |                              |   |                          | 217 419        |
| Imports - Importations - Importaciones  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |             |  |                              |   |                          | 1125           |
| Exports - Exportations - Exportaciones  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |             |  |                              |   |                          |                |
| Stock - Stocks - Inventario (+/-)   |                              |                            |  |                                 | 167 684                       |  |                                   |   |   |                             | 111         |  |                              |   |                          | 111            |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>49 694</b>                | <b>22</b>                  | <b>20</b>                                      |                                 | <b>3 511</b>                  |  |                                   |   |   |                             | <b>1236</b> |  |                              |   |                          | <b>218 655</b> |
| Differences - Ecarts - Diferencias  |                              |                            |  |                                 |                               |  |                                   |   |   |                             | <b>31</b>   |  |                              |   |                          | <b>3 480</b>   |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |             |  |                              |   |                          |                |
| Electricity - Electricité - Electrica   | - 49 694                     | - 22                       | - 20   |                                 | - 21 692                      |  |                                   |   |   |                             |             |  |                              |   |                          | - 18 017       |
| CHP - Cogénération - Cogeneración   |                              |                            |  |                                 | - 109 910                     |  |                                   |   |   |                             |             |  |                              |   |                          | - 81 426       |
| Heat - Chaleur - Calor  |                              |                            |  |                                 | - 36 081                      |  |                                   |   |   |                             |             |  |                              |   |                          | - 11 209       |
| Charcoal - Charbon - Carbón   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |             |  |                              |   |                          |                |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |             |  |                              |   |                          |                |
| Other - Autres - Otras  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |             |  |                              |   |                          |                |
| Own use - Consomm. propre - Uso propio  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |             |  |                              |   |                          |                |
| Distribution - Distribution - Distribución  |                              |                            |  |                                 | - 565                         |  |                                   |   |   |                             |             |  |                              |   |                          | - 566          |
|   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |             |  |                              |   |                          | - 1 967        |
|   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |             |  |                              |   |                          | - 2 035        |
|   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |             |  |                              |   |                          | - 3 481        |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |             |  |                              |   |                          |                |
| Total - Total - Total   |                              |                            |  |                                 | 2 946                         |  |                                   |   |   | 1205                        |             |  |                              |   |                          | 102 870        |
| Industry - Industrie - Industria  |                              |                            |  |                                 | 494                           |  |                                   |   |   |                             |             |  |                              |   |                          | 54 693         |
| Transport - Transport - Transporte  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |             |  |                              |   |                          | 1 351          |
| Commerce - Commerce - Comercial   |                              |                            |  |                                 | 261                           |  |                                   |   |   |                             |             |  |                              |   |                          | 20 583         |
| Residential - Résidentiel - Residencial   |                              |                            |  |                                 | 499                           |  |                                   |   |   |                             |             |  |                              |   |                          | 20 497         |
| Other - Autres - Otras  |                              |                            |  |                                 | 1 692                         |  |                                   |   |   |                             |             |  |                              |   |                          | 5 746          |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |             |  |                              |   |                          |                |
| Total - Total - Total   | 46 481                       | 20                         | 18   |                                 | 55 145                        |  |                                   |   |   | 1205                        |             |  |                              |   |                          | 102 870        |
| Electricity - Electricité - Electrica   | 46 481                       | 20                         | 18   |                                 | 19 535                        |  |                                   |   |   |                             |             |  |                              |   |                          | 66 054         |
| Heat - Chaleur - Calor  |                              |                            |  |                                 | 32 664                        |  |                                   |   |   |                             |             |  |                              |   |                          | 32 664         |
| Direct use - Utilisation directe - Uso directo  |                              |                            |  |                                 | 2 946                         |  |                                   |   |   |                             |             |  |                              |   |                          | 4 151          |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |                                 |                               |  |                                   |   |   |                             |             |  |                              |   |                          |                |
| Electricity - Electricité - Electrica (in/en GWh)   | 13 804                       | 6                          | 5  |                                 | 5 802                         |  |                                   |   |   |                             |             |  |                              |   |                          | 19 617         |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |  |                                 | 36 145                        |  |                                   |   |   |                             |             |  |                              |   |                          | 36 145         |

Iraq

Iraq

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Éolica | Solar - Solaire - Solar                        |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                                 | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total         |
|---|------------------------------|----------------------------|--|---------------------------------|--|-----------------------------------|---|---|---------------------------------|--|-------------------------------|---|--------------------------|---------------|
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás                      |                               |   |                          |               |
| <b>Primary energy - Énergie primaire - Energía primaria</b>   |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |               |
| Production - Production - Generación  | 9 551                        |                            |  | 1 356                           |  |                                   |   | 1 338   | 1                               |  |                               | 1 821                                   | 1 979                    | 12 244        |
| Imports - Importations - Importaciones  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               | - 4                                     | 3 801                    | 3 801         |
| Exports - Exportations - Exportaciones  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          | - 4           |
| Stock - Stocks - Inventario (+/-)   |                              |                            |  |                                 |  |                                   |   | 1 339   |                                 |  |                               | 1 817                                   | 1 979                    | 16 041        |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>9 551</b>                 |                            |  | <b>1 356</b>                    |  |                                   |   |   |                                 |  |                               | <b>1 817</b>                            | <b>1 979</b>             | <b>16 041</b> |
| <i>Differences - Ecarts - Diferencias</i>   |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               | - 65                                    |                          | - 65          |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |               |
| Electricity - Électricité - Electrica   | - 9 551                      |                            |  | - 1 356                         |  |                                   |   |   |                                 |  |                               | 10 906                                  |                          |               |
| CHP - Cogénération - Cogeneración   |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |               |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               | 695                                     |                          | - 644         |
| Charcoal - Charbon - Carbón   |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |               |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               | - 1107                                  |                          | - 1107        |
| Other - Autres - Otras  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               | - 6 564                                 |                          | - 6 564       |
| Own use - Consomm. propre - Uso propio  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |               |
| Distribution - Distribution - Distribución  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |               |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |               |
| <b>Total - Total - Total</b>  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               | <b>2 512</b>                            | <b>5 149</b>             | <b>7 661</b>  |
| Industry - Industrie - Industria  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               | 562                                     |                          | 562           |
| Transport - Transport - Transporte  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               | 502                                     | 1 204                    | 1 707         |
| Commerce - Commerce - Comercial   |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               | 2 010                                   | 2 868                    | 4 877         |
| Residential - Résidentiel - Residencial   |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               | 514                                     |                          | 514           |
| Other - Autres - Otros  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |               |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |               |
| <b>Total - Total - Total</b>  | <b>4 509</b>                 |                            |  | <b>640</b>                      |  |                                   |   |   |                                 |  |                               | <b>2 512</b>                            |                          | <b>7 661</b>  |
| Electricity - Électricité - Electrica   | 4 509                        |                            |  | 640                             |  |                                   |   |   |                                 |  |                               |   |                          | 5 149         |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          | 2 512         |
| Direct use - Utilisation directe - Uso directo  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |               |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |               |
| Electricity - Électricité - Electrica (in/en GWh)   | 2 653                        |                            |  | 377                             |  |                                   |   |   |                                 |  |                               |   |                          | 3 030         |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |               |

| 2021 (In/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Éolica | Solar - Solaire - Solar                        |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                                 | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total         |
|---|------------------------------|----------------------------|--|---------------------------------|--|-----------------------------------|---|---|---------------------------------|--|-------------------------------|---|--------------------------|---------------|
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás                      |                               |   |                          |               |
| <b>Primary energy - Énergie primaire - Energía primaria</b>   |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |               |
| Production - Production - Generación  | 12 053                       |                            |  | 1 356                           |  |                                   |   | 1 338   | 0                               |  |                               | 1 392                                   | 5 893                    | 14 747        |
| Imports - Importations - Importaciones  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               | - 8                                     |                          | 7 286         |
| Exports - Exportations - Exportaciones  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          | - 8           |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>12 053</b>                |                            |  | <b>1 356</b>                    |  |                                   |   | <b>1 338</b>  |                                 |  |                               | <b>1 385</b>                            | <b>5 893</b>             | <b>22 025</b> |
| <i>Differences - Ecarts - Diferencias</i>   |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               | - 288                                   |                          | - 288         |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |               |
| Electricity - Électricité - Electrica   | - 12 053                     |                            |  | - 1 356                         |  |                                   |   |   |                                 |  |                               | 13 409                                  |                          |               |
| CHP - Cogénération - Cogeneración   |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |               |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               | 695                                     |                          | - 643         |
| Charcoal - Charbon - Carbón   |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |               |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               | - 1 658                                 |                          | - 1 658       |
| Other - Autres - Otras  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               | - 9 209                                 |                          | - 9 209       |
| Own use - Consomm. propre - Uso propio  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |               |
| Distribution - Distribution - Distribución  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |               |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |               |
| <b>Total - Total - Total</b>  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               | <b>2 080</b>                            | <b>8 146</b>             | <b>10 226</b> |
| Industry - Industrie - Industria  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               | 905                                     |                          | 905           |
| Transport - Transport - Transporte  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               | 416                                     | 1 961                    | 2 377         |
| Commerce - Commerce - Comercial   |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               | 1 664                                   | 4 526                    | 6 190         |
| Residential - Résidentiel - Residencial   |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               | 754                                     |                          | 754           |
| Other - Autres - Otros  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |               |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |               |
| <b>Total - Total - Total</b>  | <b>7 323</b>                 |                            |  | <b>824</b>                      |  |                                   |   |   |                                 |  |                               | <b>2 080</b>                            |                          | <b>10 226</b> |
| Electricity - Électricité - Electrica   | 7 323                        |                            |  | 824                             |  |                                   |   |   |                                 |  |                               |   |                          | 8 146         |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          | 2 080         |
| Direct use - Utilisation directe - Uso directo  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |               |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |               |
| Electricity - Électricité - Electrica (in/en GWh)   | 3 348                        |                            |  | 377                             |  |                                   |   |   |                                 |  |                               |   |                          | 3 725         |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |               |

# Ireland

# Ireland

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                        |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                                 |                             | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Carbon<br>Carbon | Electricity<br>Électricité<br>Electricidad | Heat<br>Chaleur<br>Calor | Total         |
|---|------------------------------|----------------------------|--|---------------------------------|--|-----------------------------------|---|---|---------------------------------|-----------------------------|--|------------------------------|--|--------------------------|---------------|
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás |  |                              |  |                          |               |
|   |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |  |                          |               |
| <b>Primary energy - Énergie primaire - Energía primaria</b>   |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |  |                          |               |
| Production - Production - Generación  | 2 524                        | 40 350                     | 534  | 589                             |  | 4 199                             | 6 352                                       | 10 527  | 3 751                           | 2 218                       |  |                              | 2 198                                      |                          | 71 044        |
| Imports - Importations - Importaciones  |                              |                            |  |                                 |  |                                   |   | 922   | 6 554                           |                             |  |                              | - 1848                                     |                          | 9 675         |
| Exports - Exportations - Exportaciones  |                              |                            |  |                                 |  |                                   |   | - 1   | - 611                           |                             |  |                              |  |                          | - 2 460       |
| Stock - Stocks - Inventario (+/-)   |                              |                            |  |                                 |  |                                   |   | - 25  | - 509                           |                             |  |                              |  |                          | - 535         |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>2 524</b>                 | <b>40 350</b>              | <b>534</b>                                     | <b>589</b>                      |  | <b>4 199</b>                      | <b>6 352</b>                                | <b>11 423</b>   | <b>9 186</b>                    | <b>2 218</b>                |  |                              | <b>350</b>                                 |                          | <b>77 725</b> |
| Differences - Ecarts - Diferencias  |                              |                            |  |                                 |  |                                   |   | 460   | 186                             |                             |  |                              | 602  |                          | 1249          |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |  |                          |               |
| Electricity - Électricité - Electrica   | - 2 524                      | - 40 350                   | - 534  |                                 |  |                                   |   | - 4 094   | - 4 335                         |                             |  |                              | - 1080                                     |                          | - 6 163       |
| CHP - Cogénération - Cogeneración   |                              |                            |  |                                 |  |                                   |   |   | - 212                           |                             |  |                              | - 576                                      |                          | - 486         |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |  |                          |               |
| Charcoal - Charbon - Carbón   |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |  |                          |               |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |  |                          |               |
| Other - Autres - Otras  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |  |                          |               |
| Own use - Consomm. propre - Uso propio  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |  |                          |               |
| Distribution - Distribution - Distribución  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |  |                          |               |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |  |                          |               |
| Total - Total - Total   |                              |                            |  | 589                             |  | 4 199                             | 2 258                                       | 7 336   | 9 372                           | 563                         |  |                              | 42 765                                     |                          | 67 081        |
| Industry - Industrie - Industria  |                              |                            |  |                                 |  |                                   |   | 5 489   | 279                             |                             |  |                              | 9 537                                      |                          | 17 562        |
| Transport - Transport - Transporte  |                              |                            |  | 7                               |  |                                   |   | 875   | 9 372                           | 284                         |  |                              | 278  |                          | 9 651         |
| Commerce - Commerce - Comercial   |                              |                            |  | 582                             |  | 966                               | 3 232                                       |   |                                 |                             |  |                              | 20 704                                     |                          | 22 836        |
| Residential - Résidentiel - Residencial   |                              |                            |  |                                 |  |                                   |   | 972   |                                 |                             |  |                              | 11 547                                     |                          | 16 334        |
| Other - Autres - Otros  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              | 699  |                          | 699           |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |  |                          |               |
| Total - Total - Total   | 2 294                        | 36 670                     | 485  | 589                             |  | 4 199                             | 3 392                                       | 8 997   | 9 372                           | 1 082                       |  |                              |  |                          | 67 081        |
| Electricity - Électricité - Electrica   | 2 294                        | 36 670                     | 485  |                                 |  |                                   |   | 1135  | 1661                            | 519                         |  |                              |  |                          | 42 765        |
| Heat - Chaleur - Calor  |                              |                            |  | 589                             |  | 4 199                             | 2 258                                       | 7 336   | 9 372                           | 563                         |  |                              |  |                          | 24 316        |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |  |                          |               |
| Electricity - Électricité - Electrica (in/en GWh)   | 701                          | 11 208                     |  | 148                             |  |                                   |   | 347   | 508                             |                             | 159  |                              |  |                          | 13 071        |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |  |                          |               |
| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                        |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                                 |                             | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Carbon<br>Carbon | Electricity<br>Électricité<br>Electricidad | Heat<br>Chaleur<br>Calor | Total         |
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás |  |                              |  |                          |               |
|   |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |  |                          |               |
| <b>Primary energy - Énergie primaire - Energía primaria</b>   |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |  |                          |               |
| Production - Production - Generación  | 2 698                        | 35 202                     | 286  | 587                             |  | 3 311                             | 6 021                                       | 9 722   | 3 127                           | 2 179                       |  |                              | 3 213                                      |                          | 63 132        |
| Imports - Importations - Importaciones  |                              |                            |  |                                 |  |                                   |   | 1 623   | 4 609                           |                             |  |                              | - 1131                                     |                          | 9 445         |
| Exports - Exportations - Exportaciones  |                              |                            |  |                                 |  |                                   |   | - 1   | - 733                           |                             |  |                              |  |                          | - 1 865       |
| Stock - Stocks - Inventario (+/-)   |                              |                            |  |                                 |  |                                   |   | - 162   | 284                             |                             |  |                              |  |                          | 122           |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>2 698</b>                 | <b>35 202</b>              | <b>286</b>                                     | <b>587</b>                      |  | <b>3 311</b>                      | <b>6 021</b>                                | <b>11 182</b>   | <b>7 287</b>                    | <b>2 179</b>                |  |                              | <b>2 081</b>                               |                          | <b>70 834</b> |
| Differences - Ecarts - Diferencias  |                              |                            |  |                                 |  |                                   |   | 190   | 183                             |                             |  |                              | 591  |                          | 964           |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |  |                          |               |
| Electricity - Électricité - Electrica   | - 2 698                      | - 35 202                   | - 286  |                                 |  |                                   |   | - 4 068   | - 4 050                         |                             |  |                              | - 1231                                     |                          | - 6 048       |
| CHP - Cogénération - Cogeneración   |                              |                            |  |                                 |  |                                   |   |   | - 201                           |                             |  |                              | - 428                                      |                          | - 349         |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |  |                          |               |
| Charcoal - Charbon - Carbón   |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |  |                          |               |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |  |                          |               |
| Other - Autres - Otras  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |  |                          |               |
| Own use - Consomm. propre - Uso propio  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |  |                          |               |
| Distribution - Distribution - Distribución  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |  |                          |               |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |  |                          |               |
| Total - Total - Total   |                              |                            |  | 587                             |  | 3 311                             | 1 953                                       | 7 120   | 7 470                           | 519                         |  |                              | 39 350                                     |                          | 60 311        |
| Industry - Industrie - Industria  |                              |                            |  |                                 |  |                                   |   | 5 241   | 262                             |                             |  |                              | 8 984                                      |                          | 16 440        |
| Transport - Transport - Transporte  |                              |                            |  | 7                               |  |                                   |   | 7 470   |                                 |                             |  |                              | 193  |                          | 7 663         |
| Commerce - Commerce - Comercial   |                              |                            |  | 580                             |  | 916                               | 2 395                                       | 777   |                                 | 257                         |  |                              | 17 876                                     |                          | 19 834        |
| Residential - Résidentiel - Residencial   |                              |                            |  |                                 |  |                                   |   | 1102  |                                 |                             |  |                              | 11 571                                     |                          | 15 648        |
| Other - Autres - Otros  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              | 726  |                          | 726           |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |  |                          |               |
| Total - Total - Total   | 2 542                        | 33 165                     | 269  | 587                             |  | 3 311                             | 3 145                                       | 8 717   | 7 470                           | 1 106                       |  |                              |  |                          | 60 311        |
| Electricity - Électricité - Electrica   | 2 542                        | 33 165                     | 269  |                                 |  |                                   |   | 1192  | 1596                            | 586                         |  |                              |  |                          | 39 350        |
| Heat - Chaleur - Calor  |                              |                            |  | 587                             |  | 3 311                             | 1 953                                       | 7 120   | 7 470                           | 519                         |  |                              |  |                          | 20 961        |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |  |                          |               |
| Electricity - Électricité - Electrica (in/en GWh)   | 749                          | 9 778                      | 79   |                                 |  |                                   |   | 351   | 471                             |                             | 173  |                              |  |                          | 11 602        |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |  |                          |               |

# Italy

# Italy

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina                                 | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                        |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                             |               | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor  | Total |                  |
|---|--|----------------------------|--|---------------------------------|-------------------------------|--|-----------------------------------|---|---|-----------------------------|---------------|--|-------------------------------|---|---|-------|------------------|
|   |  |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás |               |  |                               |   |   |       |                  |
|   | <b>Primary energy - Énergie primaire - Energía primaria</b>  |                            |  |                                 |                               |  |                                   |   |   |                             |               |  |                               |   |   |       |                  |
| Production - Production - Generación  | 102 232  | 73 779                     | 101 237  | 11 020                          | 216 868                       | 111 467                                  | 48 288                            |   | 283 879   | 48 739                      | 86 728        |  | 32 411                        | 1 752                                   | 60 366  |       | 1 084 237        |
| Imports - Importations - Importaciones  |  |                            |  |                                 |                               |  |                                   | 16 683                                      | 59 571  |                             |               | - 118  |                               | - 42                                    |   |       | 170 783          |
| Exports - Exportations - Exportaciones  |  |                            |  |                                 |                               |  |                                   | - 1 344                                     | - 24 046  |                             |               |  |                               |   |   |       | - 31 161         |
| Stock - Stocks - Inventario (+/-)   |  |                            |  |                                 |                               |  |                                   | - 1 860                                     |   |                             |               |  |                               |   |   |       | - 1 860          |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>102 232</b>   | <b>73 779</b>              | <b>101 237</b>                                 | <b>11 020</b>                   | <b>216 868</b>                | <b>111 467</b>                           | <b>48 288</b>                     |   | <b>299 217</b>  | <b>82 404</b>               | <b>86 728</b> |  | <b>32 293</b>                 | <b>1 710</b>                            | <b>54 756</b>   |       | <b>1 222 000</b> |
| Differences - écarts - Diferencias  |  |                            |  |                                 |                               |  |                                   | - 15  |   | - 11 825                    |               |  |                               |   |   |       | - 11 854         |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |  |                            |  |                                 |                               |  |                                   |   |   |                             |               |  |                               |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |       |                  |
| Electricity - Électricité - Eléctrica   | - 102 232  | - 73 779                   | - 101 237                                      |                                 | - 210 129                     |  |                                   | - 15 570                                    | - 20 202  |                             |               |  |                               |   | 327 713   |       | - 246 297        |
| CHP - Cogénération - Cogeneración   |  |                            |  |                                 |                               |  |                                   | - 2 149                                     |   |                             |               |  |                               |   | 34 011  |       | - 51 385         |
| Heat - Chaleur - Calor  |  |                            |  | - 10                            |                               |  |                                   |   |   |                             |               | - 4 502  |                               | - 41 662                                |   |       | - 1 999          |
| Charcoal - Charbon - Carbón   |  |                            |  |                                 |                               |  |                                   |   |   |                             |               | - 616  |                               | - 8                                     |   |       | - 308            |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |  |                            |  |                                 |                               |  |                                   |   |   |                             |               | - 7 614  |                               |   |   |       | - 0              |
| Other - Autres - Otras  |  |                            |  |                                 |                               |  |                                   |   |   |                             |               |  |                               |   |   |       | - 17             |
| Own use - Consomm. propre - Uso propio  |  |                            |  |                                 |                               |  |                                   |   |   |                             |               |  |                               |   | - 26 474  |       | - 2 816          |
| Distribution - Distribution - Distribución  |  |                            |  |                                 |                               |  |                                   |   |   |                             |               |  |                               |   | - 24 395  |       | - 25 898         |
| <b>Final consumption - Consommation finale - Consumo final</b>  |  |                            |  |                                 |                               |  |                                   |   |   |                             |               |  |                               |   | <b>Final consumption - Consommation finale - Consumo final</b>  |       |                  |
| <b>Total - Total - Total</b>  |  |                            |  | <b>11 010</b>                   | <b>4 591</b>                  | <b>111 379</b>                           | <b>12 515</b>                     |   | <b>228 711</b>  | <b>58 359</b>               | <b>9 372</b>  | <b>39 907</b>                                    | <b>2 018</b>                  | <b>365 579</b>                          | <b>11 511</b>   |       | <b>854 952</b>   |
| Industry - Industrie - Industria  |  |                            |  | 442                             | 51                            | 204                                      | 12 245                            |   | 7 329   | 192                         | 741           |  |                               | 142 203                                 |   | 4 280 | <b>167 996</b>   |
| Transport - Transport - Transporte  |  |                            |  | 1 871                           |                               | 2 841                                    |                                   |   | 58 158  | 9                           | 1             |  |                               | 11 475                                  |   |       | <b>69 634</b>    |
| Commerce - Commerce - Comercial   |  |                            |  | 8 583                           | 33                            | 29 620                                   |                                   | 271   |   |                             |               |  |                               | 120 968                                 |   |       | <b>213 569</b>   |
| Residential - Résidentiel - Residencial   |  |                            |  | 114                             | 1 665                         |  |                                   |   | 219 580   | 1 466                       | 0             | 7 740  |                               | 82 338                                  | 5 290   |       | <b>384 068</b>   |
| Other - Autres - Otros  |  |                            |  |                                 |                               |  |                                   |   |   |                             |               |  |                               | 8 595                                   | 105   |       | <b>19 686</b>    |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |  |                            |  |                                 |                               |  |                                   |   |   |                             |               |  |                               |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |       |                  |
| <b>Total - Total - Total</b>  | <b>103 322</b>   | <b>74 565</b>              | <b>102 316</b>                                 | <b>11 062</b>                   | <b>26 609</b>                 | <b>111 478</b>                           | <b>24 577</b>                     |   | <b>250 426</b>  | <b>69 916</b>               | <b>38 756</b> | <b>39 907</b>                                    | <b>2 018</b>                  |   |   |       | <b>854 952</b>   |
| Electricity - Électricité - Eléctrica   | 103 322  | 74 565                     | 102 316  | 45                              | 21 237                        |  | 8 942                             |   | 15 375  | 11 236                      | 28 540        |  |                               |   |   |       | <b>365 579</b>   |
| Heat - Chaleur - Calor  |  |                            |  | 6                               | 781                           | 99                                       | 3 119                             |   | 6 340   | 322                         | 844           |  |                               |   |   |       | <b>11 511</b>    |
| Direct use - Utilisation directe - Uso directo  |  |                            |  | 11 010                          | 4 591                         | 111 379                                  | 12 515                            |   | 228 711   | 58 359                      | 9 372         | 39 907   | 2 018                         |   |   |       | <b>477 862</b>   |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |  |                            |  |                                 |                               |  |                                   |   |   |                             |               |  |                               |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |       |                  |
| Electricity - Électricité - Eléctrica (in/en GWh)   | 28 398   | 20 494                     | 28 121   | 12                              | 5 837                         |  | 2 458                             |   | 4 226   | 3 088                       | 7 844         |  |                               |   |   |       | <b>100 479</b>   |
| Heat - Chaleur - Calor (in/en TJ)   |  |                            |  | 9                               | 1 074                         |  | 136                               |   | 8 719   | 442                         | 1 160         |  |                               |   |   |       | <b>15 830</b>    |
| 2021 (In/en TJ)   | Hydro/Marine<br>Hydro/Marina                                 | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                        |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                             |               | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor  | Total |                  |
|   |  |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos | Liquid - Liquides<br>- Líquidos          | Biogas - Biogaz<br>- Biogás       |   |   |                             |               |  |                               |   |   |       |                  |
|   | <b>Primary energy - Énergie primaire - Energía primaaria</b> |                            |  |                                 |                               |  |                                   |   |   |                             |               |  |                               |   |   |       |                  |
| Production - Production - Generación  | 163 398  | 75 338                     | 90 140   | 10 335                          | 219 856                       | 106 577                                  | 49 760                            |   | 312 998   | 56 447                      | 87 045        |  |                               |   |   |       | <b>1 171 894</b> |
| Imports - Importations - Importaciones  |  |                            |  |                                 |                               |  |                                   | 18 886                                      | 63 123  |                             |               |  |                               |   |   |       | <b>187 585</b>   |
| Exports - Exportations - Exportaciones  |  |                            |  |                                 |                               |  |                                   | - 949                                       | - 28 620  |                             |               |  |                               |   |   |       | <b>- 35 328</b>  |
| Stock - Stocks - Inventario (+/-)   |  |                            |  |                                 |                               |  |                                   |   | 1169  |                             |               |  |                               |   |   |       | <b>1 169</b>     |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>163 398</b>   | <b>75 338</b>              | <b>90 140</b>                                  | <b>10 335</b>                   | <b>219 856</b>                | <b>106 577</b>                           | <b>49 760</b>                     |   | <b>330 935</b>  | <b>92 119</b>               | <b>87 045</b> | <b>35 791</b>                                    | <b>2 025</b>                  | <b>62 000</b>                           |   |       | <b>1 325 320</b> |
| Differences - écarts - Diferencias  |  |                            |  |                                 |                               |  |                                   | - 38  |   |                             |               |  |                               |   |   |       | <b>- 38</b>      |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |  |                            |  |                                 |                               |  |                                   |   |   |                             |               |  |                               |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |       |                  |
| Electricity - Électricité - Eléctrica   | - 163 398  | - 75 338                   | - 90 140                                       |                                 | - 212 896                     |  |                                   | - 16 947                                    | - 19 713  |                             |               | - 29 189   | - 23 653                      | - 24 511                                |   |       | <b>- 253 448</b> |
| CHP - Cogénération - Cogeneración   |  |                            |  |                                 |                               |  |                                   | - 11  | - 2 145   |                             |               | - 38 612   | - 9 189                       | - 55 291                                |   |       | <b>- 75 725</b>  |
| Heat - Chaleur - Calor  |  |                            |  |                                 |                               |  |                                   |   |   |                             |               | - 4 783  | - 14                          | - 3                                     |   |       | <b>- 2 118</b>   |
| Charcoal - Charbon - Carbón   |  |                            |  |                                 |                               |  |                                   |   |   |                             |               | - 616  |                               |   |   |       | <b>- 308</b>     |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |  |                            |  |                                 |                               |  |                                   |   |   |                             |               | - 6 853  |                               |   |   |       | <b>0</b>         |
| Other - Autres - Otras  |  |                            |  |                                 |                               |  |                                   |   |   |                             |               |  |                               |   |   |       |                  |
| Own use - Consomm. propre - Uso propio  |  |                            |  |                                 |                               |  |                                   |   |   |                             |               |  |                               |   | - 29 888  |       | <b>- 33 177</b>  |
| Distribution - Distribution - Distribución  |  |                            |  |                                 |                               |  |                                   |   |   |                             |               |  |                               |   | - 27 576  |       | <b>- 29 027</b>  |
| <b>Final consumption - Consommation finale - Consumo final</b>  |  |                            |  |                                 |                               |  |                                   |   |   |                             |               |  |                               |   | <b>Final consumption - Consommation finale - Consumo final</b>  |       |                  |
| <b>Total - Total - Total</b>  |  |                            |  | <b>10 323</b>                   | <b>4 815</b>                  | <b>106 577</b>                           | <b>13 100</b>                     |   | <b>250 881</b>  | <b>59 263</b>               | <b>7 203</b>  | <b>42 644</b>                                    | <b>2 333</b>                  | <b>423 402</b>                          | <b>10 938</b>   |       | <b>931 480</b>   |
| Industry - Industrie - Industria  |  |                            |  | 439                             | 57                            | 148                                      | 13 100                            |   | 6 107   | 59 263                      | 668           |  | 308                           | 170 325                                 | 4 149   |       | <b>195 301</b>   |
| Transport - Transport - Transporte  |  |                            |  | 1 860                           | 2 946                         | 80 849                                   |                                   |   | 218   | 818                         | 1             |  |                               | 12 447                                  |   |       | <b>71 711</b>    |
| Commerce - Commerce - Comercial   |  |                            |  | 7 911                           | 35                            | 25 580                                   |                                   |   | 242 960   | 1 597                       | 3 198         |  | 2 025                         | 133 529                                 | 1 712   |       | <b>225 130</b>   |
| Residential - Résidentiel - Residencial   |  |                            |  | 112                             | 1 777                         |  |                                   |   | 1 597   | 5 716                       | 39 446        |  |                               | 97 253                                  | 5 004   |       | <b>420 214</b>   |
| Other - Autres - Otros  |  |                            |  |                                 |                               |  |                                   |   |   |                             |               |  |                               | 9 848                                   |   |       | <b>19 123</b>    |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |  |                            |  |                                 |                               |  |                                   |   |   |                             |               |  |                               |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |       |                  |
| <b>Total - Total - Total</b>  | <b>165 168</b>   | <b>76 154</b>              | <b>91 117</b>                                  | <b>10 376</b>                   | <b>27 083</b>                 | <b>106 577</b>                           | <b>25 194</b>                     |   | <b>272 740</b>  | <b>74 729</b>               | <b>37 365</b> | <b>42 644</b>                                    | <b>2 333</b>                  |   |   |       | <b>931 480</b>   |
| Electricity - Électricité - Eléctrica   | 165 168  | 76 154                     | 91 117   | 45                              | 21 520                        |  | 8 868                             |   | 16 015  | 14 952                      | 29 564        |  |                               |   |   |       | <b>423 402</b>   |
| Heat - Chaleur - Calor  |  |                            |  | 7                               | 748                           |  | 3 226                             |   | 5 844   | 514                         | 599           |  |                               |   |   |       | <b>10 938</b>    |
| Direct use - Utilisation directe - Uso directo  |  |                            |  | 10 323                          | 4 815                         | 106 577                                  | 13 100                            |   | 250 881   | 59 263                      | 7 203         | 42 644   | 2 333                         |   |   |       | <b>497 139</b>   |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |  |                            |  |                                 |                               |  |                                   |   |   |                             |               |  |                               |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |       |                  |
| Electricity - Électricité - Eléctrica (in/en GWh)   | 45 388   | 20 927                     | 25 039   | 12                              | 5 914                         |  | 2 437                             |   | 4 401   | 4 109                       | 8 124         |  |                               |   |   |       | <b>116 352</b>   |
| Heat - Chaleur - Calor (in/en TJ)   |  |                            |  | 10                              | 1 072                         |  | 4 624                             |   | 8 377   | 736                         | 858           |  |                               |   |   |       | <b>15 677</b>    |

### Jamaica

### Jamaica

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne | Solar - Solaire - Solar                              |                                 |  | Geothermal<br>Géothermique | Other RE<br>Autres ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios   |                                 |                             | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total        |
|---|------------------------------|------------------|--|---------------------------------|--|----------------------------|-----------------------|---|---|---------------------------------|-----------------------------|--|---------------------|---|--------------------------|--------------|
|   |                              |                  | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica       | Thermal<br>Thermique<br>Térmica | Geothermal<br>Géothermique<br>Geotérmica |                            |                       |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Liquidos | Biogas - Biogaz<br>- Biogás |  |                     |   |                          |              |
|   |                              |                  | Primary energy - Énergie primaire - Energía primaria |                                 |  |                            |                       |   | Primary energy - Énergie primaire - Energía primaria  |                                 |                             |  |                     |   |                          |              |
| Production - Production - Generación  | 428                          | 980              | 474  |                                 |  |                            |                       |   | 6 226   |                                 |                             |  |                     |   |                          | 8 108        |
| Imports - Importations - Importaciones  |                              |                  |  |                                 |  |                            |                       |   |   |                                 |                             |  |                     |   |                          |              |
| Exports - Exportations - Exportaciones  |                              |                  |  |                                 |  |                            |                       |   |   |                                 |                             |  |                     |   |                          |              |
| Stock - Stocks - Inventario (+/-)   |                              |                  |  |                                 |  |                            |                       |   |   |                                 |                             |  |                     |   |                          |              |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>428</b>                   | <b>980</b>       | <b>474</b>   |                                 |  |                            |                       |   | <b>6 226</b>  |                                 |                             |  |                     |   |                          | <b>8 108</b> |
| Differences - Ecarts - Diferencias  |                              |                  |  |                                 |  |                            |                       |   |   |                                 |                             |  |                     |   |                          | <b>389</b>   |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                  |  |                                 |  |                            |                       |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                                 |                             |  |                     |   |                          |              |
| Electricity - Électricité - Electrica   | - 428                        | - 980            | - 474  |                                 |  |                            |                       |   | - 136   |                                 |                             |  |                     |   |                          | - 101        |
| CHP - Cogénération - Cogeneración   |                              |                  |  |                                 |  |                            |                       |   |   |                                 |                             |  |                     |   |                          |              |
| Heat - Chaleur - Calor  |                              |                  |  |                                 |  |                            |                       |   | - 1683  |                                 |                             |  |                     |   |                          | - 921        |
| Charcoal - Charbon - Carbón   |                              |                  |  |                                 |  |                            |                       |   |   |                                 |                             |  |                     |   |                          |              |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                  |  |                                 |  |                            |                       |   |   |                                 |                             |  |                     |   |                          |              |
| Other - Autres - Otras  |                              |                  |  |                                 |  |                            |                       |   |   |                                 |                             |  |                     |   |                          | - 27         |
| Own use - Consomm. propre - Uso propio  |                              |                  |  |                                 |  |                            |                       |   |   |                                 |                             |  |                     |   |                          | - 523        |
| Distribution - Distribution - Distribución  |                              |                  |  |                                 |  |                            |                       |   |   |                                 |                             |  |                     |   |                          |              |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                  |  |                                 |  |                            |                       |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                                 |                             |  |                     |   |                          |              |
| <b>Total - Total - Total</b>  |                              |                  |  |                                 |  |                            |                       |   | <b>4 406</b>  |                                 |                             |  |                     |   |                          | <b>6 842</b> |
| Industry - Industrie - Industria  |                              |                  |  |                                 |  |                            |                       |   | 1 492   |                                 |                             |  |                     |   |                          | <b>2 152</b> |
| Transport - Transport - Transporte  |                              |                  |  |                                 |  |                            |                       |   |   |                                 |                             |  |                     |   |                          |              |
| Commerce - Commerce - Comercial   |                              |                  |  |                                 |  |                            |                       |   | 1 224   |                                 |                             |  |                     |   |                          | <b>1 867</b> |
| Residential - Résidentiel - Residencial   |                              |                  |  |                                 |  |                            |                       |   | 1 690   |                                 |                             |  |                     |   |                          | <b>2 810</b> |
| Other - Autres - Otros  |                              |                  |  |                                 |  |                            |                       |   |   |                                 |                             |  |                     |   |                          | <b>13</b>    |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                  |  |                                 |  |                            |                       |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                                 |                             |  |                     |   |                          |              |
| <b>Total - Total - Total</b>  | <b>374</b>                   | <b>856</b>       | <b>414</b>   |                                 |  |                            |                       |   | <b>4 437</b>  |                                 |                             |  |                     |   |                          | <b>6 842</b> |
| Electricity - Électricité - Electrica   | 374                          | 856              | 414  |                                 |  |                            |                       |   | 31  |                                 |                             |  |                     |   |                          | <b>1 674</b> |
| Heat - Chaleur - Calor  |                              |                  |  |                                 |  |                            |                       |   |   |                                 |                             |  |                     |   |                          |              |
| Direct use - Utilisation directe - Uso directo  |                              |                  |  |                                 |  |                            |                       |   | 4 406   |                                 |                             |  |                     |   |                          | <b>5 168</b> |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                  |  |                                 |  |                            |                       |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                                 |                             |  |                     |   |                          |              |
| Electricity - Électricité - Electrica (in/en GWh)   | 119                          | 272              | 132  |                                 |  |                            |                       |   | 10  |                                 |                             |  |                     |   |                          | <b>533</b>   |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                  |  |                                 |  |                            |                       |   |   |                                 |                             |  |                     |   |                          |              |
| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne | Solar - Solaire - Solar                              |                                 |  | Geothermal<br>Géothermique | Other RE<br>Autres ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios   |                                 |                             | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total        |
|   |                              |                  | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica       | Thermal<br>Thermique<br>Térmica | Geothermal<br>Géothermique<br>Geotérmica |                            |                       |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Liquidos | Biogas - Biogaz<br>- Biogás |  |                     |   |                          |              |
|   |                              |                  | Primary energy - Énergie primaire - Energía primaria |                                 |  |                            |                       |   | Primary energy - Énergie primaire - Energía primaria  |                                 |                             |  |                     |   |                          |              |
| Production - Production - Generación  | 496                          | 952              | 476  |                                 |  |                            |                       |   | 6 226   |                                 |                             |  |                     |   |                          | 8 150        |
| Imports - Importations - Importaciones  |                              |                  |  |                                 |  |                            |                       |   |   |                                 |                             |  |                     |   |                          |              |
| Exports - Exportations - Exportaciones  |                              |                  |  |                                 |  |                            |                       |   |   |                                 |                             |  |                     |   |                          |              |
| Stock - Stocks - Inventario (+/-)   |                              |                  |  |                                 |  |                            |                       |   |   |                                 |                             |  |                     |   |                          |              |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>496</b>                   | <b>952</b>       | <b>476</b>   |                                 |  |                            |                       |   | <b>6 226</b>  |                                 |                             |  |                     |   |                          | <b>8 150</b> |
| Differences - Ecarts - Diferencias  |                              |                  |  |                                 |  |                            |                       |   |   |                                 |                             |  |                     |   |                          | <b>289</b>   |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                  |  |                                 |  |                            |                       |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                                 |                             |  |                     |   |                          |              |
| Electricity - Électricité - Electrica   | - 496                        | - 952            | - 476  |                                 |  |                            |                       |   | - 147   |                                 |                             |  |                     |   |                          | - 86         |
| CHP - Cogénération - Cogeneración   |                              |                  |  |                                 |  |                            |                       |   |   |                                 |                             |  |                     |   |                          |              |
| Heat - Chaleur - Calor  |                              |                  |  |                                 |  |                            |                       |   | - 1683  |                                 |                             |  |                     |   |                          | - 921        |
| Charcoal - Charbon - Carbón   |                              |                  |  |                                 |  |                            |                       |   |   |                                 |                             |  |                     |   |                          |              |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                  |  |                                 |  |                            |                       |   |   |                                 |                             |  |                     |   |                          |              |
| Other - Autres - Otras  |                              |                  |  |                                 |  |                            |                       |   |   |                                 |                             |  |                     |   |                          | - 28         |
| Own use - Consomm. propre - Uso propio  |                              |                  |  |                                 |  |                            |                       |   |   |                                 |                             |  |                     |   |                          | - 571        |
| Distribution - Distribution - Distribución  |                              |                  |  |                                 |  |                            |                       |   |   |                                 |                             |  |                     |   |                          |              |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                  |  |                                 |  |                            |                       |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                                 |                             |  |                     |   |                          |              |
| <b>Total - Total - Total</b>  |                              |                  |  |                                 |  |                            |                       |   | <b>4 396</b>  |                                 |                             |  |                     |   |                          | <b>6 832</b> |
| Industry - Industrie - Industria  |                              |                  |  |                                 |  |                            |                       |   | 1 481   |                                 |                             |  |                     |   |                          | <b>2 017</b> |
| Transport - Transport - Transporte  |                              |                  |  |                                 |  |                            |                       |   |   |                                 |                             |  |                     |   |                          |              |
| Commerce - Commerce - Comercial   |                              |                  |  |                                 |  |                            |                       |   | 1 224   |                                 |                             |  |                     |   |                          | <b>1 987</b> |
| Residential - Résidentiel - Residencial   |                              |                  |  |                                 |  |                            |                       |   | 1 690   |                                 |                             |  |                     |   |                          | <b>2 819</b> |
| Other - Autres - Otros  |                              |                  |  |                                 |  |                            |                       |   |   |                                 |                             |  |                     |   |                          | <b>10</b>    |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                  |  |                                 |  |                            |                       |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                                 |                             |  |                     |   |                          |              |
| <b>Total - Total - Total</b>  | <b>418</b>                   | <b>803</b>       | <b>402</b>   |                                 |  |                            |                       |   | <b>4 447</b>  |                                 |                             |  |                     |   |                          | <b>6 832</b> |
| Electricity - Électricité - Electrica   | 418                          | 803              | 402  |                                 |  |                            |                       |   | 51  |                                 |                             |  |                     |   |                          | <b>1 674</b> |
| Heat - Chaleur - Calor  |                              |                  |  |                                 |  |                            |                       |   |   |                                 |                             |  |                     |   |                          |              |
| Direct use - Utilisation directe - Uso directo  |                              |                  |  |                                 |  |                            |                       |   | 4 396   |                                 |                             |  |                     |   |                          | <b>5 158</b> |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                  |  |                                 |  |                            |                       |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                                 |                             |  |                     |   |                          |              |
| Electricity - Électricité - Electrica (in/en GWh)   | 138                          | 265              | 132  |                                 |  |                            |                       |   | 17  |                                 |                             |  |                     |   |                          | <b>551</b>   |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                  |  |                                 |  |                            |                       |   |   |                                 |                             |  |                     |   |                          |              |

# Japan

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                        |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                             |                   | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total                                 |
|---|------------------------------|----------------------------|--|---------------------------------|-------------------------------|--|-----------------------------------|---|---|-----------------------------|-------------------|--|-------------------------------|---|--------------------------|---------------------------------------|
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Solidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás |                   |  |                               |   |                          |                                       |
| <b>Primary energy - Énergie primaire - Energía primaria</b>   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |                   |  |                               |   |                          |                                       |
| Production - Production - Generación  | 278 046                      | 33 469                     | 333 410  | 5 961                           | 112 645                       |  |                                   | 18 633                                      | 316 038<br>23 317<br>- 5  | 315<br>18 213               | 166               | 74 573<br>- 37                                   | 3 617<br>- 7                  |   |                          | 1 098 684<br>119 720<br>- 48          |
| Imports - Importations - Importaciones  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |                   |  |                               |   |                          |                                       |
| Exports - Exportations - Exportaciones  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |                   |  |                               |   |                          |                                       |
| Stock - Stocks - Inventario (+/-)   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |                   |  |                               |   |                          |                                       |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>278 046</b>               | <b>33 469</b>              | <b>333 410</b>                                 | <b>5 961</b>                    | <b>112 645</b>                |  |                                   | <b>18 633</b>                               | <b>339 350<br/>- 5 129</b>  | <b>18 528</b>               | <b>166<br/>16</b> | <b>74 536</b>                                    | <b>3 610</b>                  |   |                          | <b>1 218 355<br/>- 6 118</b>          |
| Differences - Ecarts - Diferencias  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |                   |  |                               |   |                          |                                       |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |                   |  |                               |   |                          |                                       |
| Electricity - Électricité - Electrica   | - 278 046                    | - 33 469                   | - 333 410                                      |                                 | - 107 277                     |  |                                   | - 18 633                                    | - 171 692   |                             | - 71              | - 75 424   |                               | 787 774                                 |                          | - 230 249                             |
| CHP - Cogénération - Cogeneración   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |                   |  |                               |   |                          |                                       |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |                   |  |                               |   |                          |                                       |
| Charcoal - Charbon - Carbón   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |                   |  |                               |   |                          |                                       |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |                   |  |                               |   |                          |                                       |
| Other - Autres - Otras  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |                   |  |                               |   |                          |                                       |
| Own use - Consomm. propre - Uso propio  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |                   |  |                               |   |                          |                                       |
| Distribution - Distribution - Distribución  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |                   |  |                               |   |                          |                                       |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |                   |  |                               |   |                          |                                       |
| <b>Total - Total - Total</b>  |                              |                            |  | <b>5 962</b>                    | <b>5 367<br/>27</b>           |  |                                   |   | <b>159 431<br/>111 940</b>  | <b>18 528</b>               | <b>86</b>         | <b>1751<br/>888</b>                              | <b>3 962</b>                  | <b>701 245<br/>245 602<br/>12 784</b>   |                          | <b>896 332<br/>358 457<br/>31 312</b> |
| Industry - Industrie - Industria  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |                   |  |                               |   |                          |                                       |
| Transport - Transport - Transporte  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |                   |  |                               |   |                          |                                       |
| Commerce - Commerce - Comercial   |                              |                            |  | 684                             | 2 101                         |  |                                   |   | 47 477  |                             |                   | 863  | 594                           | 237 335                                 |                          | <b>289 054</b>                        |
| Residential - Résidentiel - Residencial   |                              |                            |  | 5 278                           | 2 467                         |  |                                   |   |   |                             |                   |  | 3 368                         | 202 789                                 |                          | <b>213 901</b>                        |
| Other - Autres - Otros  |                              |                            |  |                                 | 772                           |  |                                   |   | 14  |                             |                   |  |                               | 2 735                                   |                          | <b>3 607</b>                          |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |                   |  |                               |   |                          |                                       |
| <b>Total - Total - Total</b>  | <b>260 012</b>               | <b>31 298</b>              | <b>311 785</b>                                 | <b>5 962</b>                    | <b>15 399</b>                 |  |                                   | <b>7 430</b>                                | <b>204 653</b>  | <b>18 528</b>               | <b>120</b>        | <b>37 184</b>                                    | <b>3 962</b>                  |   |                          | <b>896 332<br/>701 245</b>            |
| Electricity - Électricité - Electrica   | 260 012                      | 31 298                     | 311 785  | 5 962                           | 10 032                        |  |                                   | 7 430                                       | 45 222  |                             | 34                | 35 432   |                               |   |                          |                                       |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |                   |  |                               |   |                          |                                       |
| Direct use - Utilisation directe - Uso directo  |                              |                            |  |                                 |                               |  |                                   |   | 159 431   | 18 528                      | 86                | 1 751  | 3 962                         |   |                          | <b>195 087</b>                        |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |                                 |                               |  |                                   |   |   |                             |                   |  |                               |   |                          |                                       |
| Electricity - Électricité - Electrica (in/en GWh)   | 77 235                       | 9 297                      |  | 92 614                          |                               | 2 980                                    |                                   |   | 2 207   | 13 433                      |                   | 10   | 10 525                        |   |                          | <b>208 301</b>                        |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |                   |  |                               |   |                          |                                       |
| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                        |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                             |                   | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total                                 |
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Solidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás |                   |  |                               |   |                          |                                       |
| <b>Primary energy - Énergie primaire - Energía primaria</b>   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |                   |  |                               |   |                          |                                       |
| Production - Production - Generación  | 283 651                      | 33 887                     | 309 888  | 6 460                           | 113 661                       |  |                                   | 15 848                                      | 338 835<br>27 996<br>- 4  | 315                         | 137               | 52 753<br>- 29                                   | 3 569<br>- 8                  |   |                          | <b>1 102 682<br/>103 259<br/>- 41</b> |
| Imports - Importations - Importaciones  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |                   |  |                               |   |                          |                                       |
| Exports - Exportations - Exportaciones  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |                   |  |                               |   |                          |                                       |
| Stock - Stocks - Inventario (+/-)   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |                   |  |                               |   |                          |                                       |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>283 651</b>               | <b>33 887</b>              | <b>309 888</b>                                 | <b>6 460</b>                    | <b>113 661</b>                |  |                                   | <b>15 848</b>                               | <b>366 827<br/>- 3 344</b>  | <b>19 257<br/>1</b>         | <b>137<br/>7</b>  | <b>52 723</b>                                    | <b>3 561</b>                  |   |                          | <b>1 205 900<br/>- 8 373</b>          |
| Differences - Ecarts - Diferencias  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |                   |  |                               |   |                          |                                       |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |                   |  |                               |   |                          |                                       |
| Electricity - Électricité - Electrica   | - 283 651                    | - 33 887                   | - 309 888                                      |                                 | - 108 294                     |  |                                   | - 15 848                                    | - 202 788   |                             | - 55              | - 53 612   |                               | 761 137                                 |                          | - 246 886                             |
| CHP - Cogénération - Cogeneración   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |                   |  |                               |   |                          |                                       |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |                   |  |                               |   |                          |                                       |
| Charcoal - Charbon - Carbón   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |                   |  |                               |   |                          |                                       |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |                   |  |                               |   |                          |                                       |
| Other - Autres - Otras  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |                   |  |                               |   |                          |                                       |
| Own use - Consomm. propre - Uso propio  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |                   |  |                               |   |                          |                                       |
| Distribution - Distribution - Distribución  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |                   |  |                               |   |                          |                                       |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |                   |  |                               |   |                          |                                       |
| <b>Total - Total - Total</b>  |                              |                            |  | <b>6 460</b>                    | <b>5 367<br/>27</b>           |  |                                   |   | <b>157 566<br/>110 073</b>  | <b>19 258</b>               | <b>68</b>         | <b>1751<br/>888</b>                              | <b>3 913</b>                  | <b>669 823<br/>240 310<br/>11 986</b>   |                          | <b>864 206<br/>351 298<br/>31 244</b> |
| Industry - Industrie - Industria  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |                   |  |                               |   |                          |                                       |
| Transport - Transport - Transporte  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |                   |  |                               |   |                          |                                       |
| Commerce - Commerce - Comercial   |                              |                            |  | 709                             | 2 101                         |  |                                   |   | 47 479  |                             |                   | 863  | 587                           | 233 964                                 |                          | <b>285 703</b>                        |
| Residential - Résidentiel - Residencial   |                              |                            |  | 5 751                           | 2 467                         |  |                                   |   |   |                             |                   |  | 3 326                         | 180 998                                 |                          | <b>192 542</b>                        |
| Other - Autres - Otros  |                              |                            |  |                                 | 772                           |  |                                   |   | 14  |                             | 68                |  |                               | 2 565                                   |                          | <b>3 419</b>                          |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |                   |  |                               |   |                          |                                       |
| <b>Total - Total - Total</b>  | <b>257 851</b>               | <b>30 805</b>              | <b>281 701</b>                                 | <b>6 460</b>                    | <b>15 211</b>                 |  |                                   | <b>6 071</b>                                | <b>219 011</b>  | <b>19 258</b>               | <b>91</b>         | <b>23 834</b>                                    | <b>3 913</b>                  |   |                          | <b>864 206<br/>669 823</b>            |
| Electricity - Électricité - Electrica   | 257 851                      | 30 805                     | 281 701  | 6 460                           | 9 844                         |  |                                   | 6 071                                       | 61 445  |                             | 23                | 22 083   |                               |   |                          |                                       |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |                   |  |                               |   |                          |                                       |
| Direct use - Utilisation directe - Uso directo  |                              |                            |  |                                 |                               |  |                                   |   | 157 566   | 19 258                      | 68                | 1 751  | 3 913                         |   |                          |                                       |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |                                 |                               |  |                                   |   |   |                             |                   |  |                               |   |                          |                                       |
| Electricity - Électricité - Electrica (in/en GWh)   | 78 792                       | 9 413                      |  | 86 080                          |                               | 3 008                                    |                                   |   | 1 855   | 18 776                      |                   | 7  | 6 748                         |   |                          | <b>204 679</b>                        |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |                   |  |                               |   |                          |                                       |

## Jordan

## Jordan

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Édica | Solar - Solaire - Solar                        |                                 | Geothermal<br>Géothermique | Other RE<br>Autres ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                                 | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total                  |
|---|------------------------------|---------------------------|--|---------------------------------|----------------------------|-----------------------|---|---|---------------------------------|--|-------------------------------|---|--------------------------|------------------------|
|   |                              |                           | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica |                            |                       |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás                      |                               |   |                          |                        |
| <b>Primary energy - Énergie primaire - Energía primaaria</b>  |                              |                           |  |                                 |                            |                       |   |   |                                 |  |                               |   |                          |                        |
| Production - Production - Generación  | 69                           | 6 422                     | 13 946   | 5 521                           |                            |                       |   | 4 485<br>72<br>- 483  |                                 | 38   |                               | 0<br>- 0                                | 227<br>- 166             |                        |
| Imports - Importations - Importaciones  |                              |                           |  |                                 |                            |                       |   |   |                                 |  |                               |   |                          | 30 481<br>299<br>- 649 |
| Exports - Exportations - Exportaciones  |                              |                           |  |                                 |                            |                       |   |   |                                 |  |                               |   |                          |                        |
| Stock - Stocks - Inventario (+/-)   |                              |                           |  |                                 |                            |                       |   |   |                                 |  |                               |   |                          |                        |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>69</b>                    | <b>6 422</b>              | <b>13 946</b>                                  | <b>5 521</b>                    |                            |                       |   | <b>4 074</b>  |                                 | <b>38</b>  |                               | <b>0</b>                                | <b>61</b>                | <b>30 131</b>          |
| <i>Differences - Ecarts - Diferencias</i>   |                              |                           |  |                                 |                            |                       |   |   |                                 |  |                               |   |                          |                        |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                           |  |                                 |                            |                       |   |   |                                 |  |                               |   |                          |                        |
| Electricity - Électricité - Electrica   | - 69                         | - 6 422                   | - 13 946                                       |                                 |                            |                       |   |   |                                 | - 38   |                               |   | 20 449                   |                        |
| CHP - Cogénération - Cogeneración   |                              |                           |  |                                 |                            |                       |   |   |                                 |  |                               |   |                          | - 25                   |
| Heat - Chaleur - Calor  |                              |                           |  |                                 |                            |                       |   |   |                                 |  |                               |   |                          |                        |
| Charcoal - Charbon - Carbón   |                              |                           |  |                                 |                            |                       |   |   |                                 |  |                               |   |                          |                        |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                           |  |                                 |                            |                       |   |   |                                 |  |                               |   |                          |                        |
| Other - Autres - Otras  |                              |                           |  |                                 |                            |                       |   |   |                                 |  |                               |   |                          |                        |
| Own use - Consomm. propre - Uso propio  |                              |                           |  |                                 |                            |                       |   |   |                                 |  |                               |   |                          |                        |
| Distribution - Distribution - Distribución  |                              |                           |  |                                 |                            |                       |   |   |                                 |  |                               |   |                          |                        |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                           |  |                                 |                            |                       |   |   |                                 |  |                               |   |                          |                        |
| Total - Total - Total   |                              |                           |  | 5 521                           |                            |                       |   | 448   |                                 |  |                               | 1 641                                   | 17 788                   |                        |
| Industry - Industrie - Industria  |                              |                           |  |                                 |                            |                       |   |   |                                 |  |                               | 3 778                                   |                          | 25 399                 |
| Transport - Transport - Transporte  |                              |                           |  |                                 |                            |                       |   |   |                                 |  |                               |   |                          | 3 778                  |
| Commerce - Commerce - Comercial   |                              |                           |  | 1104                            |                            |                       |   | 179   |                                 |  |                               | 656                                     | 2 963                    |                        |
| Residential - Résidentiel - Residencial   |                              |                           |  | 4 417                           |                            |                       |   | 269   |                                 |  |                               | 985                                     | 8 526                    |                        |
| Other - Autres - Otros  |                              |                           |  |                                 |                            |                       |   |   |                                 |  |                               | 2 522                                   |                          |                        |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                           |  |                                 |                            |                       |   |   |                                 |  |                               |   |                          |                        |
| Total - Total - Total   | 60                           | 5 586                     | 12 131   | 5 521                           |                            |                       |   | 448   |                                 | 11   |                               | 1 641                                   |                          | 25 399                 |
| Electricity - Électricité - Electrica   | 60                           | 5 586                     | 12 131   |                                 |                            |                       |   |   |                                 | 11   |                               |   |                          | 17 788                 |
| Heat - Chaleur - Calor  |                              |                           |  | 5 521                           |                            |                       |   | 448   |                                 |  |                               | 1 641                                   |                          |                        |
| Direct use - Utilisation directe - Uso directo  |                              |                           |  |                                 |                            |                       |   |   |                                 |  |                               |   |                          | 7 611                  |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                           |  |                                 |                            |                       |   |   |                                 |  |                               |   |                          |                        |
| Electricity - Électricité - Electrica (in/en GWh)   | 19                           | 1 784                     | 3 874  |                                 |                            |                       |   |   |                                 | 4  |                               |   |                          | 5 680                  |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                           |  |                                 |                            |                       |   |   |                                 |  |                               |   |                          |                        |

| 2021 (In/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Édica | Solar - Solaire - Solar                        |                                 | Geothermal<br>Géothermique | Other RE<br>Autres ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                                 | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total                    |
|---|------------------------------|---------------------------|--|---------------------------------|----------------------------|-----------------------|---|---|---------------------------------|--|-------------------------------|---|--------------------------|--------------------------|
|   |                              |                           | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica |                            |                       |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás                      |                               |   |                          |                          |
| <b>Primary energy - Énergie primaire - Energía primaaria</b>  |                              |                           |  |                                 |                            |                       |   |   |                                 |  |                               |   |                          |                          |
| Production - Production - Generación  | 66                           | 5 861                     | 12 628   | 4 639                           |                            |                       |   | 4 394<br>12<br>- 0  |                                 | 38   |                               | 1 015<br>- 13                           | 334<br>- 147             |                          |
| Imports - Importations - Importaciones  |                              |                           |  |                                 |                            |                       |   |   |                                 |  |                               |   |                          | 27 626<br>1 361<br>- 160 |
| Exports - Exportations - Exportaciones  |                              |                           |  |                                 |                            |                       |   |   |                                 |  |                               |   |                          |                          |
| Stock - Stocks - Inventario (+/-)   |                              |                           |  |                                 |                            |                       |   |   |                                 |  |                               |   |                          |                          |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>66</b>                    | <b>5 861</b>              | <b>12 628</b>                                  | <b>4 639</b>                    |                            |                       |   | <b>4 406</b>  |                                 | <b>38</b>  |                               | <b>1 002</b>                            | <b>188</b>               | <b>28 827</b>            |
| <i>Differences - Ecarts - Diferencias</i>   |                              |                           |  |                                 |                            |                       |   |   |                                 |  |                               |   |                          | - 40                     |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                           |  |                                 |                            |                       |   |   |                                 |  |                               |   |                          |                          |
| Electricity - Électricité - Electrica   | - 66                         | - 5 861                   | - 12 628                                       |                                 |                            |                       |   |   |                                 | - 38   |                               |   | 18 567                   |                          |
| CHP - Cogénération - Cogeneración   |                              |                           |  |                                 |                            |                       |   |   |                                 |  |                               |   |                          | - 25                     |
| Heat - Chaleur - Calor  |                              |                           |  |                                 |                            |                       |   |   |                                 |  |                               |   |                          |                          |
| Charcoal - Charbon - Carbón   |                              |                           |  |                                 |                            |                       |   |   |                                 |  |                               |   |                          |                          |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                           |  |                                 |                            |                       |   |   |                                 |  |                               |   |                          |                          |
| Other - Autres - Otras  |                              |                           |  |                                 |                            |                       |   |   |                                 |  |                               |   |                          |                          |
| Own use - Consomm. propre - Uso propio  |                              |                           |  |                                 |                            |                       |   |   |                                 |  |                               |   |                          |                          |
| Distribution - Distribution - Distribución  |                              |                           |  |                                 |                            |                       |   |   |                                 |  |                               |   |                          |                          |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                           |  |                                 |                            |                       |   |   |                                 |  |                               |   |                          |                          |
| Total - Total - Total   |                              |                           |  | 4 639                           |                            |                       |   | 858   |                                 |  |                               | 2 608                                   | 16 349                   |                          |
| Industry - Industrie - Industria  |                              |                           |  |                                 |                            |                       |   |   |                                 |  |                               | 3 429                                   |                          | 24 454                   |
| Transport - Transport - Transporte  |                              |                           |  |                                 |                            |                       |   |   |                                 |  |                               |   |                          | 3 429                    |
| Commerce - Commerce - Comercial   |                              |                           |  | 928                             |                            |                       |   | 343   |                                 |  |                               | 1 043                                   | 2 728                    |                          |
| Residential - Résidentiel - Residencial   |                              |                           |  | 3 711                           |                            |                       |   | 515   |                                 |  |                               | 1 565                                   | 7 849                    |                          |
| Other - Autres - Otros  |                              |                           |  |                                 |                            |                       |   |   |                                 |  |                               |   | 2 343                    | 2 343                    |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                           |  |                                 |                            |                       |   |   |                                 |  |                               |   |                          |                          |
| Total - Total - Total   | 58                           | 5 161                     | 11 119   | 4 639                           |                            |                       |   | 858   |                                 | 11   |                               | 2 608                                   |                          | 24 454                   |
| Electricity - Électricité - Electrica   | 58                           | 5 161                     | 11 119   |                                 |                            |                       |   |   |                                 | 11   |                               |   |                          | 16 349                   |
| Heat - Chaleur - Calor  |                              |                           |  | 4 639                           |                            |                       |   | 858   |                                 |  |                               | 2 608                                   |                          |                          |
| Direct use - Utilisation directe - Uso directo  |                              |                           |  |                                 |                            |                       |   |   |                                 |  |                               |   |                          | 8 105                    |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                           |  |                                 |                            |                       |   |   |                                 |  |                               |   |                          |                          |
| Electricity - Électricité - Electrica (in/en GWh)   | 18                           | 1 628                     | 3 508  |                                 |                            |                       |   |   |                                 | 4  |                               |   |                          | 5 158                    |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                           |  |                                 |                            |                       |   |   |                                 |  |                               |   |                          |                          |

## Kazakhstan

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                              |                                 | Geothermal<br>Géothermique<br>Geotérmica             | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                                 |                              | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total |               |
|---|------------------------------|----------------------------|--|---------------------------------|--|-----------------------------------|---|---|---------------------------------|------------------------------|--|-------------------------------|---|--------------------------|-------|---------------|
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica       | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Solidos   | Liquid - Liquides<br>- Líquidos | Bioegas - Biogaz<br>- Biogás |  |                               |   |                          |       |               |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaria |                                 | Primary energy - Énergie primaire - Energía primaria |                                   |   |   |                                 |                              |  |                               |   |                          |       |               |
| Production - Production - Generación  | 32 912                       | o                          | 8 502  | o                               | 6 317  | o                                 | 13  | e   |                                 |                              | 1131   | e                             | 240                                     | o                        |       | 49 115        |
| Imports - Importations - Importaciones  |                              |                            |  |                                 |  |                                   |   |   |                                 |                              | 81   | e                             | - 154                                   | e                        | 1723  |               |
| Exports - Exportations - Exportaciones  |                              |                            |  |                                 |  |                                   |   |   |                                 |                              | - 12   | e                             | 8                                       | - 16                     | - 118 |               |
| Stock - Stocks - Inventario (+/-)   |                              |                            |  |                                 |  |                                   |   |   |                                 |                              | 1200   |                               | 95                                      | - 65                     | - 69  |               |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>32 912</b>                |                            | <b>8 502</b>   |                                 | <b>6 317</b>   |                                   | <b>13</b>                                   |   |                                 |                              | <b>460</b>                                       |                               |   |                          |       | <b>49 652</b> |
| Differences - Ecarts - Diferencias  |                              |                            |  |                                 |  |                                   |   |   |                                 |                              |  |                               |   |                          |       | <b>460</b>    |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |                                 |  |                                   |   |   |                                 |                              |  |                               |   |                          |       |               |
| Electricity - Électricité - Electrica   | - 32 912                     | o                          | - 8 502  | o                               | - 6 317  | o                                 |   |   |                                 |                              | - 519  |                               |   |                          |       | 1             |
| CHP - Cogénération - Cogeneración   |                              |                            |  |                                 |  |                                   |   |   |                                 |                              | - 86   | e                             |   |                          |       | - 519         |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |  |                                   |   |   |                                 |                              | - 83   | e                             |   |                          |       | 26            |
| Charcoal - Charbon - Carbón   |                              |                            |  |                                 |  |                                   |   |   |                                 |                              |  |                               |   |                          |       |               |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |  |                                 |  |                                   |   |   |                                 |                              |  |                               |   |                          |       |               |
| Other - Autres - Otras  |                              |                            |  |                                 |  |                                   |   |   |                                 |                              |  |                               |   |                          |       |               |
| Own use - Consomm. propre - Uso propio  |                              |                            |  |                                 |  |                                   |   |   |                                 |                              |  |                               |   |                          |       |               |
| Distribution - Distribution - Distribución  |                              |                            |  |                                 |  |                                   |   |   |                                 |                              |  |                               |   |                          |       |               |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |                                 |  |                                   |   |   |                                 |                              |  |                               |   |                          |       |               |
| Total - Total - Total   |                              |                            |  |                                 | 13   | 13                                | o   |   |                                 |                              | 972  |                               | 95                                      |                          |       | 36 311        |
| Industry - Industrie - Industria  |                              |                            |  |                                 |  |                                   |   |   |                                 |                              | 26   | e                             |   |                          |       | 17 190        |
| Transport - Transport - Transporte  |                              |                            |  |                                 |  |                                   |   |   |                                 |                              | 84   | e                             | 95                                      |                          |       | 1 480         |
| Commerce - Commerce - Comercial   |                              |                            |  |                                 |  |                                   |   |   |                                 |                              | 862  | e                             |   |                          |       | 9 839         |
| Residential - Résidentiel - Residencial   |                              |                            |  |                                 |  |                                   |   |   |                                 |                              |  |                               |   |                          |       | 6 157         |
| Other - Autres - Otros  |                              |                            |  |                                 |  |                                   |   |   |                                 |                              |  |                               |   |                          |       | 1 645         |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |                                 |  |                                   |   |   |                                 |                              |  |                               |   |                          |       |               |
| Total - Total - Total   | 24 239                       |                            | 6 262  |                                 | 4 652  |                                   | 13  |   |                                 |                              | 972  |                               | 95                                      | 1                        |       | 36 311        |
| Electricity - Électricité - Electrica   | 24 239                       |                            | 6 262  |                                 | 4 652  |                                   | 13  |   |                                 |                              | 972  |                               | 95                                      |                          |       | 35 154        |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |  |                                   |   |   |                                 |                              |  |                               |   |                          |       | 1 157         |
| Direct use - Utilisation directe - Uso directo  |                              |                            |  |                                 |  |                                   |   |   |                                 |                              |  |                               |   |                          |       |               |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |                                 |  |                                   |   |   |                                 |                              |  |                               |   |                          |       |               |
| Electricity - Électricité - Electrica (in/en GWh)   | 9 142                        |                            | 2 362  |                                 | 1 755  |                                   |   |   |                                 |                              |  |                               | 0                                       |                          |       | 13 259        |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |  |                                 |  |                                   |   |   |                                 |                              |  |                               |   |                          |       |               |
| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                              |                                 | Geothermal<br>Géothermique<br>Geotérmica             | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                                 |                              | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total |               |
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica       | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Solidos   | Liquid - Liquides<br>- Líquidos | Bioegas - Biogaz<br>- Biogás |  |                               |   |                          |       |               |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaria |                                 | Primary energy - Énergie primaire - Energía primaria |                                   |   |   |                                 |                              |  |                               |   |                          |       |               |
| Production - Production - Generación  | 33 150                       | o                          | 6 395  | o                               | 5 908  | o                                 | 13  | o   |                                 |                              | 3 658  | o                             | 37                                      | o                        |       | 49 161        |
| Imports - Importations - Importaciones  |                              |                            |  |                                 |  |                                   |   |   |                                 |                              | 144  | o                             | 20                                      | o                        |       | 1126          |
| Exports - Exportations - Exportaciones  |                              |                            |  |                                 |  |                                   |   |   |                                 |                              | - 1  | o                             | - 20                                    | o                        |       | - 1 066       |
| Stock - Stocks - Inventario (+/-)   |                              |                            |  |                                 |  |                                   |   |   |                                 |                              | 29   | o                             | 0                                       | o                        |       | 29            |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>33 150</b>                |                            | <b>6 395</b>   |                                 | <b>5 908</b>   |                                   | <b>13</b>                                   |   |                                 |                              | <b>3 831</b>                                     |                               | <b>37</b>                               | <b>20</b>                |       | <b>49 250</b> |
| Differences - Ecarts - Diferencias  |                              |                            |  |                                 |  |                                   |   |   |                                 |                              | - 0  | o                             | - 0                                     | o                        |       | 10            |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |                                 |  |                                   |   |   |                                 |                              |  |                               |   |                          |       |               |
| Electricity - Électricité - Electrica   | - 33 150                     | o                          | - 6 395  | o                               | - 5 908  | o                                 |   |   |                                 |                              | - 299  | o                             |   |                          |       | - 28          |
| CHP - Cogénération - Cogeneración   |                              |                            |  |                                 |  |                                   |   |   |                                 |                              | - 108  | o                             |   |                          |       | - 200         |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |  |                                   |   |   |                                 |                              | - 20   | o                             |   |                          |       | - 65          |
| Charcoal - Charbon - Carbón   |                              |                            |  |                                 |  |                                   |   |   |                                 |                              | - 83   |                               |   |                          |       |               |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |  |                                 |  |                                   |   |   |                                 |                              |  |                               |   |                          |       |               |
| Other - Autres - Otras  |                              |                            |  |                                 |  |                                   |   |   |                                 |                              |  |                               |   |                          |       |               |
| Own use - Consomm. propre - Uso propio  |                              |                            |  |                                 |  |                                   |   |   |                                 |                              |  |                               |   |                          |       |               |
| Distribution - Distribution - Distribución  |                              |                            |  |                                 |  |                                   |   |   |                                 |                              |  |                               |   |                          |       |               |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |                                 |  |                                   |   |   |                                 |                              |  |                               |   |                          |       |               |
| Total - Total - Total   |                              |                            |  |                                 | 13   | 13                                | o   |   |                                 |                              | 3 321  |                               | 41                                      |                          |       | 37 901        |
| Industry - Industrie - Industria  |                              |                            |  |                                 |  |                                   |   |   |                                 |                              | 359  | o                             |   |                          |       | 17 788        |
| Transport - Transport - Transporte  |                              |                            |  |                                 |  |                                   |   |   |                                 |                              | 44   |                               |   |                          |       | 1 501         |
| Commerce - Commerce - Comercial   |                              |                            |  |                                 |  |                                   |   |   |                                 |                              | 2 887  | o                             | 41                                      | o                        |       | 8 828         |
| Residential - Résidentiel - Residencial   |                              |                            |  |                                 |  |                                   |   |   |                                 |                              | 31   | o                             | 136                                     | o                        |       | 8 948         |
| Other - Autres - Otros  |                              |                            |  |                                 |  |                                   |   |   |                                 |                              |  |                               |   |                          |       | 836           |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |                                 |  |                                   |   |   |                                 |                              |  |                               |   |                          |       |               |
| Total - Total - Total   | 25 023                       |                            | 4 827  |                                 | 4 459  |                                   | 13  |   |                                 |                              | 3 395  |                               | 7                                       | 41                       | 136   | 37 901        |
| Electricity - Électricité - Electrica   | 25 023                       |                            | 4 827  |                                 | 4 459  |                                   | 13  |   |                                 |                              | 74   |                               | 7                                       |                          |       | 34 391        |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |  |                                   |   |   |                                 |                              | 3 321  |                               | 41                                      |                          |       | 3 510         |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |                                 |  |                                   |   |   |                                 |                              |  |                               |   |                          |       |               |
| Electricity - Électricité - Electrica (in/en GWh)   | 9 208                        |                            | 1 776  |                                 | 1 641  |                                   |   |   |                                 |                              | 27   |                               | 3                                       |                          |       | 12 656        |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |  |                                 |  |                                   |   |   |                                 |                              |  |                               |   |                          |       |               |

# Kenya

# Kenya

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Éolica | Solar - Solaire - Solar                              |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios   |                             |            | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total          |
|---|------------------------------|----------------------------|--|---------------------------------|-------------------------------|--|-----------------------------------|---|---|-----------------------------|------------|--|-------------------------------|---|--------------------------|----------------|
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica       | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogáz<br>- Biogás |            |  |                               |   |                          |                |
|   |                              |                            | Primary energy - Energie primaire - Energía primaria |                                 |                               |  |                                   |   | Primary energy - Energie primaire - Energía primaria  |                             |            |  |                               |   |                          |                |
| Production - Production - Generación  | 11 161                       | 307                        | 2 082  |                                 | 191 685                       |  |                                   |   | 301 544.5   | 0                           | 394        |  | 1                             | 1 517                                   |                          | 507 174        |
| Imports - Importations - Importaciones  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               | - 66                                    | 1519                     | - 66           |
| Exports - Exportations - Exportaciones  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |                |
| Stock - Stocks - Inventario (+/-)   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |                |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>11 161</b>                | <b>307</b>                 | <b>2 082</b>   |                                 | <b>191 685</b>                |  |                                   |   | <b>301 545</b>  |                             | <b>394</b> |  | <b>1</b>                      | <b>1 451</b>                            |                          | <b>508 626</b> |
| Differences - écarts - Diferencias  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   | 1 165                    | 165            |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |                                 |                               |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                             |            |  |                               |   |                          |                |
| Electricity - Electricité - Eléctrica   | - 11 161                     | - 307                      | - 2 082  |                                 | - 191 685                     |  |                                   |   | - 2 053   |                             | - 3        |  |                               | 32 719                                  |                          | - 172 519      |
| CHP - Cogénération - Cogeneración   |                              |                            |  |                                 |                               |  |                                   |   |   |                             | - 5        |  |                               | 700                                     |                          | - 1 358        |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |                |
| Charcoal - Charbon - Carbón   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |                |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |                |
| Other - Autres - Otras  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |                |
| Own use - Consomm. propre - Uso propio  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |                |
| Distribution - Distribution - Distribución  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |                |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |                                 |                               |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                             |            |  |                               |   |                          |                |
| <b>Total - Total - Total</b>  |                              |                            |  |                                 |                               |  |                                   |   | <b>203 390</b>  | 15 973                      | <b>386</b> |  | <b>43 504</b>                 | <b>26 187</b>                           |                          | <b>273 467</b> |
| Industry - Industrie - Industria  |                              |                            |  |                                 |                               |  |                                   |   |   |                             | 0          |  |                               | 4 363                                   |                          | 30 655         |
| Transport - Transport - Transporte  |                              |                            |  |                                 |                               |  |                                   |   |   |                             | 383        |  |                               | 7 601                                   |                          | 97 116         |
| Commerce - Commerce - Comercial   |                              |                            |  |                                 |                               |  |                                   |   |   |                             | 3          |  |                               |   |                          | 141 334        |
| Residential - Résidentiel - Residencial   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |                |
| Other - Autres - Otros  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |                |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |                                 |                               |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                             |            |  |                               |   |                          |                |
| <b>Total - Total - Total</b>  | <b>8 745</b>                 | <b>241</b>                 | <b>1 631</b>   |                                 | <b>15 020</b>                 |  |                                   |   | <b>203 939</b>  |                             | <b>386</b> |  | <b>43 504</b>                 | <b>26 187</b>                           |                          | <b>273 467</b> |
| Electricity - Electricité - Eléctrica   | 8 745                        | 241                        | 1 631  |                                 | 15 020                        |  |                                   |   | 549   |                             | 1          |  |                               |   |                          | <b>26 187</b>  |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |                |
| Direct use - Utilisation directe - Uso directo  |                              |                            |  |                                 |                               |  |                                   |   | 203 390   |                             | 386        |  | 43 504                        |   |                          | <b>247 280</b> |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |                                 |                               |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                             |            |  |                               |   |                          |                |
| Electricity - Electricité - Electrifica (in/en GWh)   | 3 100                        | 85                         | 578  |                                 | 5 325                         |  |                                   |   | 194   |                             | 0          |  |                               |   |                          | 9 283          |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |                |
| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Éolica | Solar - Solaire - Solar                              |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios   |                             |            | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total          |
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica       | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogáz<br>- Biogás |            |  |                               |   |                          |                |
|   |                              |                            | Primary energy - Energie primaire - Energía primaria |                                 |                               |  |                                   |   | Primary energy - Energie primaire - Energía primaria  |                             |            |  |                               |   |                          |                |
| Production - Production - Generación  | 13 900                       | 298                        | 1 513  |                                 | 184 448                       |  |                                   |   | 299 526   | 0                           | 413        |  | 6                             | 849                                     |                          | 500 097        |
| Imports - Importations - Importaciones  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |            |  | - 2                           | - 52                                    |                          | 855            |
| Exports - Exportations - Exportaciones  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          | - 55           |
| Stock - Stocks - Inventario (+/-)   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |                |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>13 900</b>                | <b>298</b>                 | <b>1 513</b>   |                                 | <b>184 448</b>                |  |                                   |   | <b>299 526</b>  |                             | <b>413</b> |  | <b>4</b>                      | <b>797</b>                              |                          | <b>500 898</b> |
| Differences - écarts - Diferencias  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          | - 113          |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |                                 |                               |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                             |            |  |                               |   |                          |                |
| Electricity - Electricité - Eléctrica   | - 13 900                     | - 298                      | - 1 513  |                                 | - 184 448                     |  |                                   |   | - 2 220   |                             | - 4        |  |                               | 34 156                                  |                          | - 166 006      |
| CHP - Cogénération - Cogeneración   |                              |                            |  |                                 |                               |  |                                   |   |   |                             | - 5        |  |                               | 700                                     |                          | - 1 525        |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |                |
| Charcoal - Charbon - Carbón   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |                |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |                |
| Other - Autres - Otras  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |                |
| Own use - Consomm. propre - Uso propio  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |                |
| Distribution - Distribution - Distribución  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |                |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |                                 |                               |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                             |            |  |                               |   |                          |                |
| <b>Total - Total - Total</b>  |                              |                            |  |                                 |                               |  |                                   |   | <b>204 334</b>  | 15 806                      | <b>404</b> |  | <b>42 090</b>                 | <b>25 680</b>                           |                          | <b>272 508</b> |
| Industry - Industrie - Industria  |                              |                            |  |                                 |                               |  |                                   |   |   |                             | 0          |  |                               | 13 820                                  |                          | 29 625         |
| Transport - Transport - Transporte  |                              |                            |  |                                 |                               |  |                                   |   |   |                             | 401        |  |                               | 4 238                                   |                          | 4 238          |
| Commerce - Commerce - Comercial   |                              |                            |  |                                 |                               |  |                                   |   |   |                             | 3          |  |                               | 7 622                                   |                          | 133 263        |
| Residential - Résidentiel - Residencial   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          | 105 381        |
| Other - Autres - Otros  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |                |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |                                 |                               |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                             |            |  |                               |   |                          |                |
| <b>Total - Total - Total</b>  | <b>10 240</b>                | <b>220</b>                 | <b>1 114</b>   |                                 | <b>13 589</b>                 |  |                                   |   | <b>204 850</b>  |                             | <b>405</b> |  | <b>42 090</b>                 |   |                          | <b>272 508</b> |
| Electricity - Electricité - Eléctrica   | 10 240                       | 220                        | 1 114  |                                 | 13 589                        |  |                                   |   | 516   |                             | 1          |  |                               |   |                          | <b>25 680</b>  |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |                |
| Direct use - Utilisation directe - Uso directo  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          | <b>246 828</b> |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |                                 |                               |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                             |            |  |                               |   |                          |                |
| Electricity - Electricité - Electrifica (in/en GWh)   | 3 861                        | 83                         | 420  |                                 | 5 124                         |  |                                   |   | 194   |                             | 0          |  |                               |   |                          | 9 682          |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |                |

## Kuwait

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Édica | Solar - Solaire - Solar                        |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                                 |                             | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Carbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total        |
|---|------------------------------|---------------------------|--|---------------------------------|--|-----------------------------------|---|---|---------------------------------|-----------------------------|--|------------------------------|---|--------------------------|--------------|
|   |                              |                           | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás |  |                              |   |                          |              |
| <b>Primary energy - Énergie primaire - Energía primaaria</b>  |                              |                           |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |              |
| Production - Production - Generación  |                              |                           | 6 199  | 322                             | 967                                      |                                   |   |   |                                 | 242                         |  |                              | 0                                       | 843                      | 11           |
| Imports - Importations - Importaciones  |                              |                           |  |                                 |  |                                   |   |   |                                 |                             |  |                              | - 20                                    | - 14                     | - 34         |
| Exports - Exportations - Exportaciones  |                              |                           |  |                                 |  |                                   |   |   |                                 |                             |  |                              | 0                                       | 823                      | - 3          |
| Stock - Stocks - Inventario (+/-)   |                              |                           | 6 199  | 322                             | 967                                      |                                   |   |   |                                 | 242                         |  |                              | 0                                       | 823                      |              |
| <b>Supply - Approvisionnement - Oferta</b>  |                              |                           | <b>6 199</b>                                   | <b>322</b>                      | <b>967</b>                               |                                   |   |   |                                 | <b>242</b>                  |  |                              | <b>0</b>                                | <b>823</b>               | <b>- 3</b>   |
| <i>Differences - Ecarts - Diferencias</i>   |                              |                           |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          | <b>8 551</b> |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                           |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |              |
| Electricity - Électricité - Electrica   |                              |                           | - 6 199  | - 322                           | - 967                                    |                                   |   |   |                                 | - 220                       |  |                              |   | 6 844                    | - 645        |
| CHP - Cogénération - Cogeneración   |                              |                           |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |              |
| Heat - Chaleur - Calor  |                              |                           |  |                                 |  |                                   |   |   |                                 |                             |  |                              | 100                                     |                          | - 121        |
| Charcoal - Carbon - Carbón  |                              |                           |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |              |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                           |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   | - 707                    |              |
| Other - Autres - Otras  |                              |                           |  |                                 |  |                                   |   |   |                                 |                             |  |                              | - 698                                   |                          | - 707        |
| Own use - Consomm. propre - Uso propio  |                              |                           |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |              |
| Distribution - Distribution - Distribución  |                              |                           |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |              |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                           |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |              |
| <b>Total - Total - Total</b>  |                              |                           |  |                                 |  |                                   |   |   |                                 | 22                          |  |                              | 0                                       | 923                      | <b>5 436</b> |
| Industry - Industrie - Industria  |                              |                           |  |                                 |  |                                   |   |   |                                 | 2                           |  |                              | 0                                       | 489                      | <b>489</b>   |
| Transport - Transport - Transporte  |                              |                           |  |                                 |  |                                   |   |   |                                 | 19                          |  |                              | 92                                      | 761                      | <b>855</b>   |
| Commerce - Commerce - Comercial   |                              |                           |  |                                 |  |                                   |   |   |                                 |                             |  |                              | 831                                     | 1 087                    | <b>1 937</b> |
| Residential - Résidentiel - Residencial   |                              |                           |  |                                 |  |                                   |   |   |                                 |                             |  |                              | 3 099                                   |                          | <b>3 099</b> |
| Other - Autres - Otros  |                              |                           |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |              |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                           |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |              |
| <b>Total - Total - Total</b>  |                              |                           | <b>4 924</b>                                   | <b>256</b>                      | <b>256</b>                               |                                   |   |   |                                 | 22                          |  |                              | 0                                       | 923                      | <b>5 436</b> |
| Electricity - Électricité - Electrica   |                              |                           | 4 924  | 256                             | 256                                      |                                   |   |   |                                 | 22                          |  |                              | 0                                       | 923                      | <b>5 436</b> |
| Heat - Chaleur - Calor  |                              |                           |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          | <b>944</b>   |
| Direct use - Utilisation directe - Uso directo  |                              |                           |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |              |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                           |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |              |
| Electricity - Électricité - Electrica (in/en GWh)   |                              |                           | 1 722  | 90                              | 90                                       |                                   |   |   |                                 |                             |  |                              |   |                          | <b>1 901</b> |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                           |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |              |
| 2021 (In/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Édica | Solar - Solaire - Solar                        |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                                 |                             | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Carbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total        |
|   |                              |                           | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás |  |                              |   |                          |              |
| <b>Primary energy - Énergie primaire - Energía primaaria</b>  |                              |                           |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |              |
| Production - Production - Generación  |                              |                           | 254  | 262                             | 763                                      |                                   |   |   |                                 | 239                         |  |                              | 3                                       | 6                        | 1 519        |
| Imports - Importations - Importaciones  |                              |                           |  |                                 |  |                                   |   |   |                                 | 11                          |  |                              | - 2                                     | - 3                      | <b>23</b>    |
| Exports - Exportations - Exportaciones  |                              |                           | 254  | 262                             | 763                                      |                                   |   |   |                                 |                             |  |                              | 3                                       | 4                        | <b>- 6</b>   |
| <b>Supply - Approvisionnement - Oferta</b>  |                              |                           | <b>254</b>                                     | <b>262</b>                      | <b>763</b>                               |                                   |   |   |                                 | <b>250</b>                  |  |                              | <b>3</b>                                | <b>4</b>                 | <b>1 536</b> |
| <i>Differences - Ecarts - Diferencias</i>   |                              |                           |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |              |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                           |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |              |
| Electricity - Électricité - Electrica   |                              |                           | - 254  | - 262                           | - 763                                    |                                   |   |   |                                 | - 218                       |  |                              |   | 771                      | - 509        |
| CHP - Cogénération - Cogeneración   |                              |                           |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |              |
| Heat - Chaleur - Calor  |                              |                           |  |                                 |  |                                   |   |   |                                 |                             |  |                              | 99                                      |                          | - 119        |
| Charcoal - Carbon - Carbón  |                              |                           |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |              |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                           |  |                                 |  |                                   |   |   |                                 |                             |  |                              | - 82                                    |                          | - 82         |
| Other - Autres - Otras  |                              |                           |  |                                 |  |                                   |   |   |                                 |                             |  |                              | - 56                                    |                          |              |
| Own use - Consomm. propre - Uso propio  |                              |                           |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |              |
| Distribution - Distribution - Distribución  |                              |                           |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |              |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                           |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |              |
| <b>Total - Total - Total</b>  |                              |                           |  |                                 |  |                                   |   |   |                                 | 32                          |  |                              | 3                                       | 103                      | <b>633</b>   |
| Industry - Industrie - Industria  |                              |                           |  |                                 |  |                                   |   |   |                                 | 3                           |  |                              | 57                                      |                          | <b>59</b>    |
| Transport - Transport - Transporte  |                              |                           |  |                                 |  |                                   |   |   |                                 | 29                          |  |                              | 10                                      | 89                       | <b>102</b>   |
| Commerce - Commerce - Comercial   |                              |                           |  |                                 |  |                                   |   |   |                                 |                             |  |                              | 92                                      | 127                      | <b>248</b>   |
| Residential - Résidentiel - Residencial   |                              |                           |  |                                 |  |                                   |   |   |                                 |                             |  |                              | 361                                     |                          | <b>361</b>   |
| Other - Autres - Otros  |                              |                           |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |              |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                           |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |              |
| <b>Total - Total - Total</b>  |                              |                           | <b>209</b>                                     | <b>215</b>                      | <b>209</b>                               |                                   |   |   |                                 | 32                          |  |                              | 3                                       | 103                      | <b>633</b>   |
| Electricity - Électricité - Electrica   |                              |                           | 209  | 215                             | 209                                      |                                   |   |   |                                 | 32                          |  |                              | 3                                       | 103                      | <b>633</b>   |
| Heat - Chaleur - Calor  |                              |                           |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |              |
| Direct use - Utilisation directe - Uso directo  |                              |                           |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          | <b>137</b>   |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                           |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |              |
| Electricity - Électricité - Electrica (in/en GWh)   |                              |                           | 71   | 73                              | 71                                       |                                   |   |   |                                 |                             |  |                              |   |                          | <b>214</b>   |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                           |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |              |

Kyrgyzstan

Kyrgyzstan

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                        |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                             |  | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total         |               |
|---|------------------------------|----------------------------|--|---------------------------------|-------------------------------|--|-----------------------------------|---|---|-----------------------------|--|--|-------------------------------|---|--------------------------|---------------|---------------|
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás |  |  |                               |   |                          |               |               |
|   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |               |
| <b>Primary energy - Énergie primaire - Energía primaria</b>   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |               |
| Production - Production - Generación  | 42 943                       | o                          |  |                                 |                               |  |                                   |   | e   |                             |  |  | o                             |   |                          | 42 943        |               |
| Imports - Importations - Importaciones  |                              |                            |  |                                 |                               |  |                                   |   | o   |                             |  |  | o                             |   |                          | 8 681         |               |
| Exports - Exportations - Exportaciones  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  | - 1701                        |   |                          | - 1701        |               |
| Stock - Stocks - Inventario (+/-)   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |               |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>42 943</b>                |                            |  |                                 |                               |  |                                   |   |   |                             |  |  | <b>6 980</b>                  |   |                          | <b>49 923</b> |               |
| Differences - écarts - Diferencias  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |               |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |               |
| Electricity - Électricité - Electrica   | - 42 943                     | o                          |  |                                 |                               |  |                                   |   |   |                             |  |  |                               | 42 943                                  |                          |               |               |
| CHP - Cogénération - Cogeneración   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |               |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |               |
| Charcoal - Charbon - Carbón   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |               |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |               |
| Other - Autres - Otras  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |               |
| Own use - Consomm. propre - Uso propio  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |               |
| Distribution - Distribution - Distribución  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |               |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |               |
| Total - Total - Total   |                              |                            |  |                                 |                               |  |                                   |   | e   |                             |  |  |                               | 41 923                                  |                          |               |               |
| Industry - Industrie - Industria  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  | 6 852                         |   |                          | 6 852         |               |
| Transport - Transport - Transporte  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  | 76                            |   |                          | 76            |               |
| Commerce - Commerce - Comercial   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |               |
| Residential - Résidentiel - Residencial   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |               |
| Other - Autres - Otros  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |               |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |               |
| <b>Total - Total - Total</b>  | <b>41 923</b>                |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               | <b>41 923</b>                           |                          |               |               |
| Electricity - Électricité - Electrica   | 41 923                       |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |               |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |               |
| Direct use - Utilisation directe - Uso directo  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |               |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |               |
| Electricity - Électricité - Electrica (in/en GWh)   | 11 929                       |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          | 11 929        |               |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |               |
| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                        |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                             |  | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total         |               |
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás |  |  |                               |   |                          |               |               |
|   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |               |
| <b>Primary energy - Énergie primaire - Energía primaria</b>   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |               |
| Production - Production - Generación  | 46 646                       | o                          |  |                                 |                               |  |                                   |   | 415 e   |                             |  |  | 22 o                          |   |                          | 47 061        |               |
| Imports - Importations - Importaciones  |                              |                            |  |                                 |                               |  |                                   |   | o   |                             |  |  | o                             |   |                          | 5 207         |               |
| Exports - Exportations - Exportaciones  |                              |                            |  |                                 |                               |  |                                   |   | - 2 o   |                             |  |  |                               |   |                          | - 1 691       |               |
| Stock - Stocks - Inventario (+/-)   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |               |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>46 646</b>                |                            |  |                                 |                               |  |                                   |   | 413   |                             |  |  | 22                            | <b>3 497</b>                            |                          | <b>50 577</b> |               |
| Differences - écarts - Diferencias  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          | 1             |               |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |               |
| Electricity - Électricité - Electrica   | - 46 646                     | o                          |  |                                 |                               |  |                                   |   |   |                             |  |  |                               | 46 646                                  |                          |               |               |
| CHP - Cogénération - Cogeneración   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |               |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |               |
| Charcoal - Charbon - Carbón   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |               |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |               |
| Other - Autres - Otras  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |               |
| Own use - Consomm. propre - Uso propio  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |               |
| Distribution - Distribution - Distribución  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |               |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |               |
| Total - Total - Total   |                              |                            |  |                                 |                               |  |                                   |   | 413   |                             |  |  |                               | 22                                      | <b>41 191</b>            |               | <b>41 626</b> |
| Industry - Industrie - Industria  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  | 6 728                         |   |                          | <b>6 728</b>  |               |
| Transport - Transport - Transporte  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  | 70                            |   |                          | 70            |               |
| Commerce - Commerce - Comercial   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  | 4 003                         |   |                          | <b>4 003</b>  |               |
| Residential - Résidentiel - Residencial   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               | 29 358                                  |                          | <b>29 358</b> |               |
| Other - Autres - Otros  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  | 1031                          |   |                          | <b>1 031</b>  |               |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |               |
| <b>Total - Total - Total</b>  | <b>41 191</b>                |                            |  |                                 |                               |  |                                   |   | 413   |                             |  |  |                               | 22                                      |                          |               | <b>41 191</b> |
| Electricity - Électricité - Electrica   | 41 191                       |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |               |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |               |
| Direct use - Utilisation directe - Uso directo  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               | <b>434</b>    |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |               |
| Electricity - Électricité - Electrica (in/en GWh)   | 12 957                       |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               | 12 957        |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |               |

# Lao People's Democratic Republic

# Lao People's Democratic Republic

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                              | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                                 |  | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbon | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total                         |
|---|------------------------------|----------------------------|--|--|-----------------------------------|---|---|---------------------------------|--|--|-------------------------------|---|--------------------------|-------------------------------|
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica       |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás                          |  |                               |   |                          |                               |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaria |  |                                   |   |   |                                 | Primary energy - Énergie primaire - Energía primaria |  |                               |   |                          |                               |
| Production - Production - Generación  | 139 873                      |                            | 246  | 63                                       |                                   |   | 72 450<br>0<br>- 16   |                                 | 35   |  | 1                             | 3 709<br>- 119 331                      |                          | 212 667<br>3 710<br>- 124 942 |
| Imports - Importations - Importaciones  |                              |                            |  |  |                                   |   | 72 434  |                                 | 35   |  | - 5 593                       | - 115 622                               |                          | 91 435                        |
| Exports - Exportations - Exportaciones  |                              |                            | 246  | 63                                       |                                   |   |   |                                 |  |  |                               |   |                          |                               |
| Stock - Stocks - Inventario (+/-)   |                              |                            |  |  |                                   |   |   |                                 |  |  |                               |   |                          |                               |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>139 873</b>               |                            | <b>246</b>   | <b>63</b>                                |                                   |   |   |                                 |  |  |                               |   |                          |                               |
| Differences - Ecarts - Diferencias  |                              |                            |  |  |                                   |   |   |                                 |  |  |                               |   |                          |                               |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |  |                                   |   |   |                                 |  |  |                               |   |                          |                               |
| Electricity - Électricité - Electrica   | - 139 873                    |                            | - 246  |  |                                   |   | - 1886  |                                 | - 8  |  | 140 122<br>1 454              |   |                          | - 5<br>- 431                  |
| CHP - Cogénération - Cogeneración   |                              |                            |  |  |                                   |   | - 12 928  |                                 |  |  | 5 852                         |   |                          | - 7 076                       |
| Heat - Chaleur - Calor  |                              |                            |  |  |                                   |   |   |                                 |  |  |                               |   |                          |                               |
| Charcoal - Charbon - Carbón   |                              |                            |  |  |                                   |   |   |                                 |  |  |                               |   |                          |                               |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |  |  |                                   |   |   |                                 |  |  |                               |   |                          |                               |
| Other - Autres - Otras  |                              |                            |  |  |                                   |   |   |                                 |  |  |                               |   |                          |                               |
| Own use - Consomm. propre - Uso propio  |                              |                            |  |  |                                   |   |   |                                 |  |  |                               |   |                          |                               |
| Distribution - Distribution - Distribución  |                              |                            |  |  |                                   |   |   |                                 |  |  |                               |   |                          |                               |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |  |                                   |   |   |                                 |  |  |                               |   |                          |                               |
| Total - Total - Total   |                              |                            | 63   |  |                                   |   | 57 621<br>8 845   |                                 | 27   |  | 259                           | 22 912<br>11 165                        |                          | 80 881<br>20 009              |
| Industry - Industrie - Industria  |                              |                            |  |  |                                   |   | 8 129<br>40 646   |                                 | 27   |  | 39                            | 4 432<br>7 176<br>140                   |                          | 12 621<br>48 110<br>140       |
| Transport - Transport - Transporte  |                              |                            | 21   |  |                                   |   |   |                                 |  |  | 220                           |   |                          |                               |
| Commerce - Commerce - Comercial   |                              |                            | 42   |  |                                   |   |   |                                 |  |  |                               |   |                          |                               |
| Residential - Résidentiel - Residencial   |                              |                            |  |  |                                   |   |   |                                 |  |  |                               |   |                          |                               |
| Other - Autres - Otros  |                              |                            |  |  |                                   |   |   |                                 |  |  |                               |   |                          |                               |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |  |                                   |   |   |                                 |  |  |                               |   |                          |                               |
| Total - Total - Total   | 22 637                       |                            | 40   | 63                                       |                                   |   | 57 856  |                                 | 27   |  | 259                           |   |                          | 80 881                        |
| Electricity - Électricité - Electrica   | 22 637                       |                            | 40   |  |                                   |   | 235   |                                 | 0  |  |                               |   |                          | 22 912                        |
| Heat - Chaleur - Calor  |                              |                            |  | 63                                       |                                   |   | 57 621  |                                 | 27   |  | 259                           |   |                          | 57 969                        |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |  |                                   |   |   |                                 |  |  |                               |   |                          |                               |
| Electricity - Électricité - Electrica (in/en GWh)   | 38 854                       |                            | 68   |  |                                   |   | 404   |                                 | 1  |  |                               |   |                          | 39 327                        |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |  |  |                                   |   |   |                                 |  |  |                               |   |                          |                               |
| 2021 (In/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                              | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                                 |  | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbon | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total                         |
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica       |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás                          |  |                               |   |                          |                               |
|   |                              |                            | Foto voltaica  |  |                                   |   |   |                                 |  |  |                               |   |                          |                               |
| <b>Primary energy - Énergie primaire - Energía primaria</b>   |                              |                            |  |  |                                   |   |   |                                 |  |  |                               |   |                          |                               |
| Production - Production - Generación  | 132 257                      |                            | 246  | 63                                       |                                   |   | 71 150<br>0<br>- 16   |                                 | 38   |  | 1                             | 3 983<br>- 110 038                      |                          | 203 753<br>3 984<br>- 112 175 |
| Imports - Importations - Importaciones  |                              |                            |  |  |                                   |   | 71 133  |                                 | 38   |  | - 2 120                       | - 106 054                               |                          | 95 562                        |
| Exports - Exportations - Exportaciones  |                              |                            | 246  | 63                                       |                                   |   |   |                                 |  |  |                               |   |                          |                               |
| Stock - Stocks - Inventario (+/-)   |                              |                            |  |  |                                   |   |   |                                 |  |  |                               |   |                          |                               |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>132 257</b>               |                            | <b>246</b>   | <b>63</b>                                |                                   |   |   |                                 |  |  |                               |   |                          |                               |
| Differences - Ecarts - Diferencias  |                              |                            |  |  |                                   |   |   |                                 |  |  |                               |   |                          |                               |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |  |                                   |   |   |                                 |  |  |                               |   |                          |                               |
| Electricity - Électricité - Electrica   | - 132 257                    |                            | - 246  |  |                                   |   | - 1 626   |                                 | - 8  |  | 132 505<br>1 273              |   |                          | - 5<br>- 352                  |
| CHP - Cogénération - Cogeneración   |                              |                            |  |  |                                   |   | - 6 328   |                                 |  |  | 2 864                         |   |                          | - 3 463                       |
| Heat - Chaleur - Calor  |                              |                            |  |  |                                   |   |   |                                 |  |  |                               |   |                          |                               |
| Charcoal - Charbon - Carbón   |                              |                            |  |  |                                   |   |   |                                 |  |  |                               |   |                          |                               |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |  |  |                                   |   |   |                                 |  |  |                               |   |                          |                               |
| Other - Autres - Otras  |                              |                            |  |  |                                   |   |   |                                 |  |  |                               |   |                          |                               |
| Own use - Consomm. propre - Uso propio  |                              |                            |  |  |                                   |   |   |                                 |  |  |                               |   |                          |                               |
| Distribution - Distribution - Distribución  |                              |                            |  |  |                                   |   |   |                                 |  |  |                               |   |                          |                               |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |  |                                   |   |   |                                 |  |  |                               |   |                          |                               |
| Total - Total - Total   |                              |                            | 63   |  |                                   |   | 63 180<br>7 674   |                                 | 30   |  | 744                           | 24 458<br>11 841                        |                          | 88 475<br>19 515              |
| Industry - Industrie - Industria  |                              |                            |  |  |                                   |   | 9 251<br>46 255   |                                 | 30   |  | 112                           | 4 760<br>7 706<br>151                   |                          | 14 143<br>54 665<br>151       |
| Transport - Transport - Transporte  |                              |                            | 21   |  |                                   |   |   |                                 |  |  | 633                           |   |                          |                               |
| Commerce - Commerce - Comercial   |                              |                            | 42   |  |                                   |   |   |                                 |  |  |                               |   |                          |                               |
| Residential - Résidentiel - Residencial   |                              |                            |  |  |                                   |   |   |                                 |  |  |                               |   |                          |                               |
| Other - Autres - Otros  |                              |                            |  |  |                                   |   |   |                                 |  |  |                               |   |                          |                               |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |  |                                   |   |   |                                 |  |  |                               |   |                          |                               |
| Total - Total - Total   | 24 180                       |                            | 45   | 63                                       |                                   |   | 63 413<br>233   |                                 | 30   |  | 744                           |   |                          | 88 475<br>24 458              |
| Electricity - Électricité - Electrica   | 24 180                       |                            | 45   |  |                                   |   | 63 180  |                                 | 30   |  | 744                           |   |                          | 64 017                        |
| Heat - Chaleur - Calor  |                              |                            |  | 63                                       |                                   |   |   |                                 |  |  |                               |   |                          |                               |
| Direct use - Utilisation directe - Uso directo  |                              |                            |  |  |                                   |   |   |                                 |  |  |                               |   |                          |                               |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |  |                                   |   |   |                                 |  |  |                               |   |                          |                               |
| Electricity - Électricité - Electrica (in/en GWh)   | 36 738                       |                            | 68   |  |                                   |   | 354   |                                 | 1  |  |                               |   |                          | 37 161                        |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |  |  |                                   |   |   |                                 |  |  |                               |   |                          |                               |

# Latvia

# Latvia

| 2022 (In/en TJ)  | Hydro/Marine<br>Hydro/Marina                         | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                        |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primariares -<br>Biocombustibles primarios                     |                                 |                             | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total    |               |
|--|--|----------------------------|--|---------------------------------|--|-----------------------------------|---|---|---------------------------------|-----------------------------|--|-------------------------------|---|--------------------------|----------|---------------|
|  |  |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás |  |                               |   |                          |          |               |
|  | Primary energy - Énergie primaire - Energía primaria |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |          |               |
| Production - Production - Generación   | 9 899  | 685                        | 149  |                                 |  | 45                                | 274   | 105 236   | 3 267                           | 2 323                       | 5 536  | 109                           | 14 465                                  |                          | 121 877  |               |
| Imports - Importations - Importaciones   |  |                            |  |                                 |  |                                   | 1 580                                       | 4 248   | 3 285                           |                             | - 28 642   | - 179                         | - 8 166                                 |                          | 29 223   |               |
| Exports - Exportations - Exportaciones   |  |                            |  |                                 |  |                                   |   | - 17 032  | - 5 681                         |                             | - 513  | - 66                          |   |                          | - 59 700 |               |
| Stock - Stocks - Inventario (+/-)  |  |                            |  |                                 |  |                                   | 11  | - 4 618   | - 76                            |                             | - 137  | 137                           | 6 299                                   |                          | - 5 263  |               |
| <b>Supply - Approvisionnement - Oferta</b>   | <b>9 899</b>   | <b>685</b>                 | <b>149</b>                                     |                                 |  | <b>45</b>                         | <b>1 865</b>                                | <b>87 834</b>   | <b>795</b>                      | <b>2 323</b>                | <b>- 23 619</b>                                  |                               |   |                          |          | <b>86 138</b> |
| Differences - écarts - Diferencias   |  |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |          |               |
| Transformation and losses - Transformation et pertes - Transformación y pérdidas   |  |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |          |               |
| Electricity - Électricité - Electrica  | - 9 899  | - 685                      | - 149  |                                 |  |                                   |   | - 11 286  |                                 |                             | - 1994   | - 23                          |   | 10 733                   |          |               |
| CHP - Cogénération - Cogeneración  |  |                            |  |                                 |  |                                   |   | - 12 261  |                                 |                             | - 25   | - 250                         |   | 2 885                    |          |               |
| Heat - Chaleur - Calor   |  |                            |  |                                 |  |                                   |   | - 517   |                                 |                             |  |                               |   | 7 523                    |          |               |
| Charcoal - Charbon - Carbón  |  |                            |  |                                 |  |                                   |   | - 36 346  |                                 |                             |  |                               |   | 10 248                   |          |               |
| Pellets/briq. - Granules/briq. - Pellets/briq.   |  |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          | - 2 895  |               |
| Other - Autres - Otras   |  |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          | - 2 288  |               |
| Own use - Consomm. propre - Uso propio   |  |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          | - 313    |               |
| Distribution - Distribution - Distribución   |  |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          | - 2      |               |
|  |  |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          | - 1 988  |               |
|  |  |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          | - 2 990  |               |
| Final consumption - Consommation finale - Consumo final  |  |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |          |               |
| Total - Total - Total  |  |                            |  |                                 |  | 45                                | 1 865                                       | 27 422  | 795                             | 304                         | 12 454   | 68                            | 17 610                                  | 15 098                   | 75 662   |               |
| Industry - Industrie - Industria   |  |                            |  |                                 |  | 6                                 | 1 865                                       | 17 295  | 2                               | 0                           | 1 245  |                               | 5 023                                   | 1 803                    | 27 239   |               |
| Transport - Transport - Transporte   |  |                            |  |                                 |  |                                   |   | 671   |                                 |                             |  |                               |   | 276                      | 947      |               |
| Commerce - Commerce - Comercial  |  |                            |  |                                 |  | 23                                |   | 347   |                                 |                             | 126  |                               | 1 868                                   | 7 279                    | 12 970   |               |
| Residential - Résidentiel - Residencial  |  |                            |  |                                 |  | 12                                |   | 9 167   |                                 |                             | 9 337  |                               | 68                                      | 4 521                    | 33 326   |               |
| Other - Autres - Otros   |  |                            |  |                                 |  | 3                                 |   | 613   | 122                             | 178                         | 3  |                               | 511                                     | 9 780                    | 32 886   |               |
|  |  |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   | 189                      | 1 619    |               |
| Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)  |  |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |          |               |
| Total - Total - Total  | 12 802   | 885                        | 192  | 33                              |  | 45                                | 1 865                                       | 44 387  | 795                             | 2 017                       | 12 571   | 68                            |   |                          | 75 662   |               |
| Electricity - Électricité - Electrica  | 12 802   | 885                        | 192  |                                 |  |                                   |   | 2 568   |                                 | 1 162                       | 0  |                               |   |                          | 17 610   |               |
| Heat - Chaleur - Calor   |  |                            |  | 33                              |  |                                   |   | 14 397  |                                 | 551                         | 116  |                               |   |                          | 15 098   |               |
| Direct use - Utilisation directe - Uso directo   |  |                            |  |                                 |  | 45                                | 1 865                                       | 27 422  | 795                             | 304                         | 12 454   | 68                            |   |                          | 42 953   |               |
| Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor |  |                            |  |                                 |  |                                   |   | Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor |                                 |                             |  |                               |   |                          |          |               |
| Electricity - Électricité - Electrica (in/en GWh)  | 2 750  | 190                        | 41   | 39                              |  |                                   |   | 552   |                                 | 250                         | 0  |                               |   |                          | 3 783    |               |
| Heat - Chaleur - Calor (in/en TJ)  |  |                            |  |                                 |  |                                   |   | 16 816  |                                 | 644                         | 136  |                               |   |                          | 17 635   |               |
| 2021 (In/en TJ)  | Hydro/Marine<br>Hydro/Marina                         | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                        |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primariares -<br>Biocombustibles primarios                     |                                 |                             | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total    |               |
|  |  |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás |  |                               |   |                          |          |               |
|  | Primary energy - Énergie primaire - Energía primaria |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |          |               |
| Production - Production - Generación   | 9 748  | 509                        | 24   |                                 |  | 45                                | 358   | 96 788  | 2 734                           | 2 763                       | 10 070   | 133                           | 10 683                                  |                          | 112 970  |               |
| Imports - Importations - Importaciones   |  |                            |  |                                 |  |                                   |   | 7 740   | 2 969                           |                             | - 42 649   | - 343                         | - 6 625                                 |                          | 32 980   |               |
| Exports - Exportations - Exportaciones   |  |                            |  |                                 |  |                                   |   | - 14 511  | - 3 563                         |                             | 549  | 45                            |   |                          | - 67 690 |               |
| Stock - Stocks - Inventario (+/-)  |  |                            |  |                                 |  |                                   |   | 4 938   | - 67                            |                             | - 164  | 4 058                         |   |                          | 5 451    |               |
| <b>Supply - Approvisionnement - Oferta</b>   | <b>9 748</b>   | <b>509</b>                 | <b>24</b>                                      |                                 |  | <b>45</b>                         | <b>1 729</b>                                | <b>94 956</b>   | <b>2 072</b>                    | <b>2 763</b>                | <b>- 32 030</b>                                  |                               |   |                          |          | <b>83 710</b> |
| Differences - écarts - Diferencias   |  |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |          |               |
| Transformation and losses - Transformation et pertes - Transformación y pérdidas   |  |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |          |               |
| Electricity - Électricité - Electrica  | - 9 748  | - 509                      | - 24   |                                 |  |                                   |   | - 11 725  |                                 |                             | - 2 464  | - 23                          |   | 10 282                   |          |               |
| CHP - Cogénération - Cogeneración  |  |                            |  |                                 |  |                                   |   | - 11 753  |                                 |                             | - 240  | - 10                          |   | 3 102                    |          |               |
| Heat - Chaleur - Calor   |  |                            |  |                                 |  |                                   |   | - 670   |                                 |                             |  |                               |   | 7 995                    |          |               |
| Charcoal - Charbon - Carbón  |  |                            |  |                                 |  |                                   |   | - 37 495  |                                 |                             |  |                               |   | 9 684                    |          |               |
| Pellets/briq. - Granules/briq. - Pellets/briq.   |  |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          | - 415    |               |
| Other - Autres - Otras   |  |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          | - 2      |               |
| Own use - Consomm. propre - Uso propio   |  |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          | - 1 705  |               |
| Distribution - Distribution - Distribución   |  |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          | - 2 740  |               |
| Final consumption - Consommation finale - Consumo final  |  |                            |  |                                 |  |                                   |   | Final consumption - Consommation finale - Consumo final   |                                 |                             |  |                               |   |                          |          |               |
| Total - Total - Total  |  |                            |  |                                 | 45                                       | 1 729                             |   | 33 312  | 2 072                           | 289                         | 5 201  | 90                            | 15 428                                  | 15 247                   | 73 414   |               |
| Industry - Industrie - Industria   |  |                            |  |                                 | 6  | 1 729                             |   | 16 114  | 3                               | 0                           | 520  |                               | 4 455                                   | 1 662                    | 24 490   |               |
| Transport - Transport - Transporte   |  |                            |  |                                 |  |                                   |   | 1 958   |                                 |                             |  |                               |   | 224                      | 2 181    |               |
| Commerce - Commerce - Comercial  |  |                            |  |                                 |  | 23                                |   | 1188  |                                 | 131                         | 780  |                               | 6 195                                   | 3 506                    | 11 824   |               |
| Residential - Résidentiel - Residencial  |  |                            |  |                                 |  | 12                                |   | 15 378  |                                 | 3 893                       | 90   |                               | 4 112                                   | 9 859                    | 33 344   |               |
| Other - Autres - Otros   |  |                            |  |                                 |  | 3                                 |   | 632   | 111                             | 158                         | 8  |                               | 442                                     | 220                      | 1 574    |               |
|  |  |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |          |               |
| Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)  |  |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |          |               |
| Total - Total - Total  | 11 237   | 587                        | 28   | 32                              |  | 45                                | 1 729                                       | 50 062  | 2 072                           | 2 212                       | 5 320  | 90                            |   |                          | 73 414   |               |
| Electricity - Électricité - Electrica  | 11 237   | 587                        | 28   |                                 |  |                                   |   | 2 364   |                                 | 1 211                       | 0  |                               |   |                          | 15 428   |               |
| Heat - Chaleur - Calor   |  |                            |  | 32                              |  |                                   |   | 14 386  |                                 | 711                         | 118  |                               |   |                          | 15 247   |               |
| Direct use - Utilisation directe - Uso directo   |  |                            |  |                                 |  | 45                                | 1 729                                       | 33 312  | 2 072                           | 289                         | 5 201  | 90                            |   |                          | 42 939   |               |
| Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor |  |                            |  |                                 |  |                                   |   | Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor |                                 |                             |  |                               |   |                          |          |               |
| Electricity - Électricité - Electrica (in/en GWh)  | 2 708  | 141                        | 7  | 36                              |  |                                   |   | 570   |                                 | 292                         | 0  |                               |   |                          | 3 718    |               |
| Heat - Chaleur - Calor (in/en TJ)  |  |                            |  |                                 |  |                                   |   | 16 552  |                                 | 818                         | 136  |                               |   |                          | 17 543   |               |

## Lesotho

## Lesotho

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Eoliennes<br>Eólica | Solar - Solaire - Solar                               |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios   |                             |  | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Carbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total                   |
|---|------------------------------|-----------------------------|---|---------------------------------|-------------------------------|--|-----------------------------------|---|---|-----------------------------|--|--|------------------------------|---|--------------------------|-------------------------|
|   |                              |                             | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás |  |  |                              |   |                          |                         |
|   |                              |                             | Primary energy - Énergie primaire - Energía primaaria |                                 |                               |  |                                   |   | Primary energy - Énergie primaire - Energía primaaria   |                             |  |  |                              |   |                          |                         |
| Production - Production - Generación  | 1729                         |                             |   | 5                               |                               |  |                                   |   | 24 397  | 4                           |  |  | 28                           | 1 825<br>- 3                            |                          | 26 130<br>1 856<br>- 3  |
| Imports - Importations - Importaciones  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  | 28                           | 1 822<br>- 6                            |                          | 27 984<br>- 6           |
| Exports - Exportations - Exportaciones  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  | 28                           | 1 822<br>- 6                            |                          | 27 984<br>- 6           |
| Stock - Stocks - Inventario (+/-)   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                              |   |                          |                         |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>1729</b>                  |                             |   | <b>5</b>                        |                               |  |                                   |   | <b>24 401</b>   |                             |  |  | <b>28</b>                    | <b>1 822<br/>- 6</b>                    |                          | <b>27 984<br/>- 6</b>   |
| Differences - Ecarts - Diferencias  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                              |   |                          |                         |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                             |   |                                 |                               |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                             |  |  |                              |   |                          |                         |
| Electricity - Électricité - Electrica   | -1729                        |                             |   | - 5                             |                               |  |                                   |   |   |                             |  |  |                              |   | 1 734                    |                         |
| CHP - Cogénération - Cogeneración   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                              |   |                          |                         |
| Heat - Chaleur - Calor  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                              |   |                          |                         |
| Charcoal - Charbon - Carbón   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                              |   |                          |                         |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                              |   |                          |                         |
| Other - Autres - Otras  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                              |   |                          |                         |
| Own use - Consomm. propre - Uso propio  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                              |   |                          |                         |
| Distribution - Distribution - Distribución  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                              |   |                          |                         |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                             |   |                                 |                               |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                             |  |  |                              |   |                          |                         |
| Total - Total - Total   |                              |                             |   |                                 |                               |  |                                   |   | 16 386  |                             |  |  | 3 656                        | 3 202<br>1 163                          |                          | 23 243<br>1 163         |
| Industry - Industrie - Industria  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                              |   |                          |                         |
| Transport - Transport - Transporte  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                              |   |                          |                         |
| Commerce - Commerce - Comercial   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                              |   |                          |                         |
| Residential - Résidentiel - Residencial   |                              |                             |   |                                 |                               |  |                                   |   | 16 386  |                             |  |  | 32                           | 606<br>1 428<br>4                       |                          | 606<br>17 847<br>3 628  |
| Other - Autres - Otros  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  | 3 623                        |   |                          |                         |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                             |   |                                 |                               |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                             |  |  |                              |   |                          |                         |
| Total - Total - Total   | 3 193                        |                             |   | 8                               |                               |  |                                   |   | 16 386  |                             |  |  | 3 656                        |   |                          | 23 243                  |
| Electricity - Électricité - Electrica   | 3 193                        |                             |   | 8                               |                               |  |                                   |   |   |                             |  |  |                              |   |                          | 3 202                   |
| Heat - Chaleur - Calor  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                              |   |                          | 20 042                  |
| Direct use - Utilisation directe - Uso directo  |                              |                             |   |                                 |                               |  |                                   |   | 16 386  |                             |  |  | 3 656                        |   |                          |                         |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                             |   |                                 |                               |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                             |  |  |                              |   |                          |                         |
| Electricity - Electricité - Electrica (in/en GWh)   | 480                          |                             |   | 1                               |                               |  |                                   |   |   |                             |  |  |                              |   |                          | 482                     |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                              |   |                          |                         |
| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Eoliennes<br>Eólica | Solar - Solaire - Solar                               |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios   |                             |  | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Carbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total                   |
|   |                              |                             | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás |  |  |                              |   |                          |                         |
|   |                              |                             | Primary energy - Énergie primaire - Energía primaaria |                                 |                               |  |                                   |   | Primary energy - Énergie primaire - Energía primaaria   |                             |  |  |                              |   |                          |                         |
| Production - Production - Generación  | 1913                         |                             |   | 4                               |                               |  |                                   |   | 24 363  | 1                           |  |  | 11                           | 1 529<br>- 4                            |                          | 26 280<br>1 541<br>- 4  |
| Imports - Importations - Importaciones  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  | 11                           | 1 525<br>- 11                           |                          | 27 817<br>- 169         |
| Exports - Exportations - Exportaciones  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  | - 159                        |   |                          |                         |
| Stock - Stocks - Inventario (+/-)   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                              |   |                          |                         |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>1913</b>                  |                             |   | <b>4</b>                        |                               |  |                                   |   | <b>24 364</b>   |                             |  |  | <b>11</b>                    | <b>1 525<br/>- 11</b>                   |                          | <b>27 817<br/>- 169</b> |
| Differences - Ecarts - Diferencias  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                              |   |                          |                         |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                             |   |                                 |                               |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                             |  |  |                              |   |                          |                         |
| Electricity - Électricité - Electrica   | -1913                        |                             |   | - 4                             |                               |  |                                   |   |   |                             |  |  |                              |   | 1 917                    |                         |
| CHP - Cogénération - Cogeneración   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                              |   |                          |                         |
| Heat - Chaleur - Calor  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                              |   |                          |                         |
| Charcoal - Charbon - Carbón   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                              |   |                          |                         |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                              |   |                          |                         |
| Other - Autres - Otras  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                              |   |                          |                         |
| Own use - Consomm. propre - Uso propio  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                              |   |                          |                         |
| Distribution - Distribution - Distribución  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                              |   |                          |                         |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                             |   |                                 |                               |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                             |  |  |                              |   |                          |                         |
| Total - Total - Total   |                              |                             |   |                                 |                               |  |                                   |   | 16 471  |                             |  |  | 3 425                        | 3 056<br>1 209                          |                          | 22 953<br>1 209         |
| Industry - Industrie - Industria  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                              |   |                          |                         |
| Transport - Transport - Transporte  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                              |   |                          |                         |
| Commerce - Commerce - Comercial   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                              |   |                          |                         |
| Residential - Résidentiel - Residencial   |                              |                             |   |                                 |                               |  |                                   |   | 16 471  |                             |  |  | 3 425                        | 837<br>1 005<br>5                       |                          | 20 901<br>5             |
| Other - Autres - Otros  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                              |   |                          |                         |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                             |   |                                 |                               |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                             |  |  |                              |   |                          |                         |
| Total - Total - Total   | 3 051                        |                             |   | 6                               |                               |  |                                   |   | 16 471  |                             |  |  | 3 425                        |   |                          | 22 953                  |
| Electricity - Électricité - Electrica   | 3 051                        |                             |   | 6                               |                               |  |                                   |   |   |                             |  |  |                              |   |                          | 3 056                   |
| Heat - Chaleur - Calor  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                              |   |                          |                         |
| Direct use - Utilisation directe - Uso directo  |                              |                             |   |                                 |                               |  |                                   |   | 16 471  |                             |  |  | 3 425                        |   |                          | 19 896                  |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                             |   |                                 |                               |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                             |  |  |                              |   |                          |                         |
| Electricity - Electricité - Electrica (in/en GWh)   | 531                          |                             |   | 1                               |                               |  |                                   |   |   |                             |  |  |                              |   |                          | 532                     |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                              |   |                          |                         |

Liberia

Liberia

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Eoliennes<br>Éolica | Solar - Solaire - Solar                               |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primaires -<br>Biocombustibles primarios   |                             |  | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total       |
|---|------------------------------|-----------------------------|---|---------------------------------|-------------------------------|--|-----------------------------------|---|---|-----------------------------|--|--|-------------------------------|---|--------------------------|-------------|
|   |                              |                             | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás |  |  |                               |   |                          |             |
|   |                              |                             | Primary energy - Énergie primaire - Energía primaaria |                                 |                               |  |                                   |   | Primary energy - Énergie primaire - Energía primaaria   |                             |  |  |                               |   |                          |             |
| Production - Production - Generación  | 462                          |                             |   | 17                              |                               |  |                                   |   | 118 152   | 1                           |  |  | 0                             |   |                          | 118 631     |
| Imports - Importations - Importaciones  |                              |                             |   |                                 |                               |  |                                   |   | - 0   |                             |  |  | - 1                           |   |                          | 0           |
| Exports - Exportations - Exportaciones  |                              |                             |   |                                 |                               |  |                                   |   | 118 151   | 1                           |  |  | - 1                           |   |                          | - 1         |
| Stock - Stocks - Inventario (+/-)   | 462                          |                             |   | 17                              |                               |  |                                   |   |   |                             |  |  |                               |   |                          | 118 630     |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>462</b>                   |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          | <b>- 38</b> |
| Differences - Ecarts - Diferencias  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |             |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                             |   |                                 |                               |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                             |  |  |                               |   |                          |             |
| Electricity - Électricité - Electrica   | - 462                        |                             |   | - 17                            |                               |  |                                   |   | - 1   |                             |  |  |                               |   |                          |             |
| CHP - Cogénération - Cogeneración   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |             |
| Heat - Chaleur - Calor  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |             |
| Charcoal - Charbon - Carbón   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |             |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |             |
| Other - Autres - Otras  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |             |
| Own use - Consomm. propre - Uso propio  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |             |
| Distribution - Distribution - Distribución  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |             |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                             |   |                                 |                               |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                             |  |  |                               |   |                          |             |
| Total - Total - Total   |                              |                             |   |                                 |                               |  |                                   |   | 93 882  |                             |  |  |                               |   |                          | 105 310     |
| Industry - Industrie - Industria  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |             |
| Transport - Transport - Transporte  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |             |
| Commerce - Commerce - Comercial   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |             |
| Residential - Résidentiel - Residencial   |                              |                             |   |                                 |                               |  |                                   |   | 93 882  |                             |  |  |                               |   |                          | 105 310     |
| Other - Autres - Otros  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |             |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                             |   |                                 |                               |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                             |  |  |                               |   |                          |             |
| Total - Total - Total   | 425                          |                             |   | 16                              |                               |  |                                   |   | 93 883  | 1                           |  |  |                               |   |                          | 105 310     |
| Electricity - Électricité - Electrica   | 425                          |                             |   | 16                              |                               |  |                                   |   | 1   |                             |  |  |                               |   |                          | 443         |
| Heat - Chaleur - Calor  |                              |                             |   |                                 |                               |  |                                   |   | 93 882  |                             |  |  |                               |   |                          | 104 867     |
| Direct use - Utilisation directe - Uso directo  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |             |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                             |   |                                 |                               |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                             |  |  |                               |   |                          |             |
| Electricity - Électricité - Electrica (in/en GWh)   | 128                          |                             |   | 5                               |                               |  |                                   |   | 0   | 0                           |  |  |                               |   |                          | 134         |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |             |
| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Eoliennes<br>Éolica | Solar - Solaire - Solar                               |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primaires -<br>Biocombustibles primarios   |                             |  | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total       |
|   |                              |                             | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás |  |  |                               |   |                          |             |
|   |                              |                             | Primary energy - Énergie primaire - Energía primaaria |                                 |                               |  |                                   |   | Primary energy - Énergie primaire - Energía primaaria   |                             |  |  |                               |   |                          |             |
| Production - Production - Generación  | 462                          |                             |   | 14                              |                               |  |                                   |   | 114 433   | 1                           |  |  | 0                             |   |                          | 114 909     |
| Imports - Importations - Importaciones  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  | - 1                           |   |                          | 0           |
| Exports - Exportations - Exportaciones  |                              |                             |   |                                 |                               |  |                                   |   | 114 433   | 1                           |  |  | - 0                           |   |                          | - 1         |
| Stock - Stocks - Inventario (+/-)   | 462                          |                             |   | 14                              |                               |  |                                   |   |   |                             |  |  |                               |   |                          | 114 909     |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>462</b>                   |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          | <b>- 37</b> |
| Differences - Ecarts - Diferencias  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |             |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                             |   |                                 |                               |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                             |  |  |                               |   |                          |             |
| Electricity - Électricité - Electrica   | - 462                        |                             |   | - 14                            |                               |  |                                   |   | - 1   |                             |  |  |                               |   |                          |             |
| CHP - Cogénération - Cogeneración   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |             |
| Heat - Chaleur - Calor  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |             |
| Charcoal - Charbon - Carbón   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |             |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |             |
| Other - Autres - Otras  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |             |
| Own use - Consomm. propre - Uso propio  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |             |
| Distribution - Distribution - Distribución  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |             |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                             |   |                                 |                               |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                             |  |  |                               |   |                          |             |
| Total - Total - Total   |                              |                             |   |                                 |                               |  |                                   |   | 90 962  |                             |  |  |                               |   |                          | 102 026     |
| Industry - Industrie - Industria  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |             |
| Transport - Transport - Transporte  |                              |                             |   |                                 |                               |  |                                   |   | 90 962  |                             |  |  |                               |   |                          |             |
| Commerce - Commerce - Comercial   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |             |
| Residential - Résidentiel - Residencial   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          | 101 586     |
| Other - Autres - Otros  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          | 441         |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                             |   |                                 |                               |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                             |  |  |                               |   |                          |             |
| Total - Total - Total   | 426                          |                             |   | 13                              |                               |  |                                   |   | 90 963  | 1                           |  |  |                               |   |                          | 102 026     |
| Electricity - Électricité - Electrica   | 426                          |                             |   | 13                              |                               |  |                                   |   | 1   |                             |  |  |                               |   |                          | 441         |
| Heat - Chaleur - Calor  |                              |                             |   |                                 |                               |  |                                   |   | 90 962  |                             |  |  |                               |   |                          | 101 586     |
| Direct use - Utilisation directe - Uso directo  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |             |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                             |   |                                 |                               |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                             |  |  |                               |   |                          |             |
| Electricity - Électricité - Electrica (in/en GWh)   | 128                          |                             |   | 4                               |                               |  |                                   |   | 0   | 0                           |  |  |                               |   |                          | 133         |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |             |

## Lithuania

## Lithuania

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                        |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                                 |                             | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Carbon<br>Carbon | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total                      |
|---|------------------------------|----------------------------|--|---------------------------------|--|-----------------------------------|---|---|---------------------------------|-----------------------------|--|------------------------------|---|--------------------------|----------------------------|
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás |  |                              |   |                          |                            |
|   |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |                            |
| <b>Primary energy - Énergie primaire - Energía primaria</b>   |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |                            |
| Production - Production - Generación  | 1 672                        | 5 445                      | 1 231  |                                 |  | 3 518                             | 3 343                                       | 53 178<br>1 775   | 6 558<br>5 659                  | 1 748                       | 3 455  | 157                          | 29 469<br>- 9 948                       |                          | 76 693<br>40 514           |
| Imports - Importations - Importaciones  |                              |                            |  |                                 |  |                                   |   | - 7 300   |                                 |                             | - 5 644  | - 40                         |   |                          | - 22 932                   |
| Exports - Exportations - Exportaciones  |                              |                            |  |                                 |  |                                   |   | 95  |                                 |                             |  | - 6                          |   |                          | 270                        |
| Stock - Stocks - Inventario (+/-)   |                              |                            |  |                                 |  |                                   |   | 182   |                                 |                             |  | 111                          |   |                          | 94 545                     |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>1 672</b>                 | <b>5 445</b>               | <b>1 231</b>                                   |                                 |  | <b>3 518</b>                      | <b>3 342</b>                                | <b>55 135</b>   | <b>5 012</b>                    | <b>1 748</b>                | <b>- 2 189</b>                                   | <b>19 521</b>                |   |                          |                            |
| Differences - Ecarts - Diferencias  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |                            |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |                            |
| Electricity - Électricité - Electrica   | - 1 672                      | - 5 445                    | - 1 231  |                                 |  |                                   |   | - 2 207   |                                 |                             | - 8 721<br>- 19 815                              |                              |   |                          | 8 348<br>2 550             |
| CHP - Cogénération - Cogeneración   |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          | - 1 869<br>- 3 345         |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          | - 0                        |
| Charcoal - Charbon - Carbón   |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          | - 6                        |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          | - 4 985                    |
| Other - Autres - Otras  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          | - 4 853                    |
| Own use - Consomm. propre - Uso propio  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |                            |
| Distribution - Distribution - Distribución  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |                            |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |                            |
| Total - Total - Total   |                              |                            |  |                                 |  | 3 518                             | 1129  | 15 733<br>3 985   | 5 012                           | 457                         | 8 671  | 111                          | 24 294<br>8 189<br>209                  | 20 561                   | 79 486<br>16 240<br>5 221  |
| Industry - Industrie - Industria  |                              |                            |  |                                 |  | 87                                | 1129  |   |                                 | 216                         |  |                              |   |                          |                            |
| Transport - Transport - Transporte  |                              |                            |  |                                 |  | 141                               |   | 1224  |                                 | 241                         |  |                              |   |                          |                            |
| Commerce - Commerce - Comercial   |                              |                            |  |                                 |  | 3 283                             | 9 779                                       |   |                                 |                             |  |                              |   |                          |                            |
| Residential - Résidentiel - Residencial   |                              |                            |  |                                 |  | 7                                 | 745   |   |                                 |                             |  |                              |   |                          |                            |
| Other - Autres - Otros  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |                            |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |                            |
| Total - Total - Total   | 3 727                        | 12 138                     | 2 745  |                                 |  | 3 518                             | 3 599                                       | 38 143<br>3 161   | 5 012                           | 1 821                       | 8 671  | 111                          |   |                          | 79 486<br>24 294           |
| Electricity - Électricité - Electrica   | 3 727                        | 12 138                     | 2 745  |                                 |  |                                   |   | 1 250   |                                 | 1 274                       |  |                              |   |                          | 20 561                     |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |  |                                   |   | 1 221   |                                 | 91                          |  |                              |   |                          | 34 631                     |
| Direct use - Utilisation directe - Uso directo  |                              |                            |  |                                 |  |                                   |   | 3 518   | 1129                            | 5 012                       | 457  | 8 671                        | 111                                     |                          |                            |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |                            |
| Electricity - Électricité - Electrica (in/en GWh)   | 464                          | 1 512                      | 342  |                                 |  |                                   |   | 156   | 394                             |                             | 159  |                              |   |                          | 3 027                      |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |  |                                 |  |                                   |   | 1 441   | 22 722                          |                             | 107  |                              |   |                          | 24 270                     |
| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                        |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                                 |                             | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Carbon<br>Carbon | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total                      |
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás |  |                              |   |                          |                            |
|   |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |                            |
| <b>Primary energy - Énergie primaire - Energía primaria</b>   |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |                            |
| Production - Production - Generación  | 1 381                        | 4 902                      | 687  |                                 |  | 2 654                             | 3 233                                       | 57 469<br>2 663   | 6 369<br>5 540                  | 1 682                       | 3 839  | 200                          | 23 191                                  |                          | 78 377<br>35 433           |
| Imports - Importations - Importaciones  |                              |                            |  |                                 |  |                                   |   | 16  | 698                             |                             | - 6 212  | - 86                         | - 6 384                                 |                          | - 19 399                   |
| Exports - Exportations - Exportaciones  |                              |                            |  |                                 |  |                                   |   | 117   |                                 |                             | 40   |                              |   |                          | 871                        |
| Stock - Stocks - Inventario (+/-)   |                              |                            |  |                                 |  |                                   |   | 10 050  |                                 |                             |  |                              |   |                          | 95 282                     |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>1 381</b>                 | <b>4 902</b>               | <b>687</b>                                     |                                 |  | <b>2 654</b>                      | <b>3 249</b>                                | <b>60 830</b>   | <b>5 309</b>                    | <b>1 682</b>                | <b>- 2 373</b>                                   | <b>154</b>                   | <b>16 807</b>                           |                          | <b>- 0</b>                 |
| Differences - Ecarts - Diferencias  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |                            |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |                            |
| Electricity - Électricité - Electrica   | - 1 381                      | - 4 902                    | - 687  |                                 |  |                                   |   | - 2 280   |                                 |                             | - 8 811<br>- 23 911<br>- 11<br>- 10 050          |                              |   |                          | 6 970<br>2 468             |
| CHP - Cogénération - Cogeneración   |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          | - 2 095<br>- 6 626         |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          | - 5                        |
| Charcoal - Charbon - Carbón   |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          | - 6                        |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          | - 3 258                    |
| Other - Autres - Otras  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          | - 4 299                    |
| Own use - Consomm. propre - Uso propio  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |                            |
| Distribution - Distribution - Distribución  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |                            |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |                            |
| Total - Total - Total   |                              |                            |  |                                 |  | 2 654                             | 965   | 18 044<br>4 366   | 5 309                           | 428<br>187                  | 7 677  | 160                          | 20 729<br>7 300<br>147                  | 21 027                   | 76 993<br>17 400<br>5 456  |
| Industry - Industrie - Industria  |                              |                            |  |                                 |  | 82                                | 965   |   |                                 |                             |  |                              |   |                          |                            |
| Transport - Transport - Transporte  |                              |                            |  |                                 |  | 124                               |   | 1 253   |                                 | 241                         |  | 160                          | 6 555<br>4 650                          |                          | 12 983                     |
| Commerce - Commerce - Comercial   |                              |                            |  |                                 |  | 2 444                             | 11 676                                      |   |                                 |                             | 7 677  |                              | 6 337<br>11 799                         |                          | 39 933                     |
| Residential - Résidentiel - Residencial   |                              |                            |  |                                 |  | 4                                 | 749   |   |                                 |                             |  |                              | 390                                     |                          | 1 222                      |
| Other - Autres - Otros  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              | 79                                      |                          |                            |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |                            |
| Total - Total - Total   | 3 034                        | 10 767                     | 1 509  |                                 |  | 2 654                             | 3 306                                       | 40 828<br>3 058   | 5 309                           | 1 751                       | 7 677  | 160                          |   |                          | 76 993<br>20 729<br>21 027 |
| Electricity - Électricité - Electrica   | 3 034                        | 10 767                     | 1 509  |                                 |  |                                   |   | 1 124   |                                 | 1 239                       |  |                              |   |                          | 35 237                     |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |  |                                   |   | 1 217   | 19 726                          |                             | 84   |                              |   |                          |                            |
| Direct use - Utilisation directe - Uso directo  |                              |                            |  |                                 |  |                                   |   | 2 654   | 18 044                          | 5 309                       | 428  | 7 677                        | 160                                     |                          |                            |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |                            |
| Electricity - Électricité - Electrica (in/en GWh)   | 384                          | 1 362                      | 191  |                                 |  |                                   |   | 142   | 387                             |                             | 157  |                              |   |                          | 2 622                      |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |  |                                 |  |                                   |   | 1451  | 23 516                          |                             | 100  |                              |   |                          | 25 067                     |

## Luxembourg

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                                     |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios   |                                 |                              | Pellets/briq.<br>Granules/briq.<br>Pellets/briq.            | Charcoal<br>Charbon<br>Carbon | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total                             |                                  |             |
|---|------------------------------|----------------------------|---|---------------------------------|--|-----------------------------------|---|---|---------------------------------|------------------------------|---|-------------------------------|---|--------------------------|-----------------------------------|----------------------------------|-------------|
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica              | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Bioegas - Biogaz<br>- Biogás |   |                               |   |                          |                                   |                                  |             |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaria        |                                 |  |                                   |   |   |                                 |                              | Primary energy - Énergie primaire - Energía primaria        |                               |   |                          |                                   |                                  |             |
| Production - Producción - Generación  | 231                          | 1 124                      | 995   | 119                             |  | 275                               | 755   | 7 599<br>244<br>- 827   | 5 409<br>19<br>- 0              | 799<br>511<br>- 314          |   | 11 624<br>- 2 667             |   |                          | 11 897<br>17 788<br>- 3 808<br>19 |                                  |             |
| Imports - Importations - Importaciones  |                              |                            |   |                                 |  |                                   |   |   |                                 |                              |   |                               |   |                          |                                   | 25 896<br>- 28                   |             |
| Exports - Exportations - Exportaciones  |                              |                            |   |                                 |  |                                   |   |   |                                 |                              |   |                               |   |                          |                                   |                                  |             |
| Stock - Stocks - Inventario (+/-)   |                              |                            |   |                                 |  |                                   |   |   |                                 |                              |   |                               |   |                          |                                   |                                  |             |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>231</b>                   | <b>1 124</b>               | <b>995</b>  | <b>119</b>                      |  | <b>275</b>                        | <b>755</b>                                  | <b>7 016</b>  | <b>5 428</b><br>- 0             | <b>799</b>                   | <b>197</b>  |                               | <b>8 958</b><br>- 28                    |                          |                                   | <b>25 896</b><br>- 28            |             |
| Differences - Ecarts - Diferencias  |                              |                            |   |                                 |  |                                   |   |   |                                 |                              |   |                               |   |                          |                                   |                                  |             |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |   |                                 |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                                 |                              |   |                               |   |                          |                                   |                                  |             |
| Electricity - Électricité - Electrica   | - 231                        | - 1 124                    | - 995   |                                 |  |                                   |   | - 522   | - 5 193<br>- 235                |                              |   | - 511<br>- 26                 |   | 2 349<br>1 291           | 4 081<br>222                      | - 1 430<br>- 39                  |             |
| CHP - Cogénération - Cogeneración   |                              |                            |   |                                 |  |                                   |   |   |                                 |                              |   |                               |   |                          |                                   |                                  |             |
| Heat - Chaleur - Calor  |                              |                            |   | - 0                             |  |                                   |   |   |                                 |                              |   |                               |   |                          |                                   |                                  |             |
| Charcoal - Charbon - Carbón   |                              |                            |   |                                 |  |                                   |   |   | - 1 254                         |                              |   |                               |   |                          |                                   |                                  |             |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |   |                                 |  |                                   |   |   |                                 |                              |   |                               |   |                          |                                   |                                  |             |
| Other - Autres - Otras  |                              |                            |   |                                 |  |                                   |   |   |                                 |                              |   |                               |   |                          |                                   |                                  |             |
| Own use - Consomm. propre - Uso propio  |                              |                            |   |                                 |  |                                   |   |   |                                 |                              |   |                               |   |                          |                                   |                                  |             |
| Distribution - Distribution - Distribución  |                              |                            |   |                                 |  |                                   |   |   |                                 |                              |   |                               |   |                          |                                   |                                  |             |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |   |                                 |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                                 |                              |   |                               |   |                          |                                   |                                  |             |
| <b>Total - Total - Total</b>  |                              |                            |   | 119                             |  | 275                               | 233   | 335<br>274  | 5 428<br>5 428                  | 288                          | 848   |                               | <b>9 993</b>                            | <b>3 818</b>             | <b>21 337</b>                     |                                  |             |
| Industry - Industrie - Industria  |                              |                            |   |                                 |  |                                   |   |   |                                 |                              |   |                               | 5 052                                   | 56                       | 5 615                             |                                  |             |
| Transport - Transport - Transporte  |                              |                            |   | 119                             |  | 275                               |   | 5<br>57   | 48                              |                              |   |                               | 306                                     |                          | 5 734                             |                                  |             |
| Commerce - Commerce - Comercial   |                              |                            |   |                                 |  |                                   |   |   |                                 |                              |   |                               | 3 018                                   | 3 762                    | 6 833                             |                                  |             |
| Residential - Résidentiel - Residencial   |                              |                            |   |                                 |  |                                   |   |   |                                 |                              |   |                               | 1 560                                   |                          | 2 858                             |                                  |             |
| Other - Autres - Otros  |                              |                            |   |                                 |  |                                   |   |   |                                 |                              |   |                               | 56                                      | 0                        | 296                               |                                  |             |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |   |                                 |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                                 |                              |   |                               |   |                          |                                   |                                  |             |
| <b>Total - Total - Total</b>  | <b>651</b>                   | <b>3 169</b>               | <b>2 804</b>  | <b>119</b>                      |  | <b>275</b>                        | <b>694</b>                                  | <b>5 781</b>  | <b>5 428</b>                    | <b>888</b>                   | <b>1 529</b>  |                               |   |                          |                                   | <b>21 337</b>                    |             |
| Electricity - Électricité - Electrica   | 651                          | 3 169                      | 2 804   | 119                             |  |                                   | 422   | 2 179   | 495                             | 272                          |   |                               |   |                          |                                   | <b>9 993</b>                     |             |
| Heat - Chaleur - Calor  |                              |                            |   | 0                               |  |                                   | 38  | 3 266   | 105                             | 408                          |   |                               |   |                          |                                   | <b>3 818</b>                     |             |
| Direct use - Utilisation directe - Uso directo  |                              |                            |   |                                 |  |                                   | 275   | 335   | 5 428                           | 288                          | 848   |                               |   |                          |                                   | <b>7 526</b>                     |             |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |   |                                 |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                                 |                              |   |                               |   |                          |                                   |                                  |             |
| Electricity - Électricité - Electrica (in/en GWh)   | 64                           | 312                        | 276   | 0                               |  |                                   | 42  | 215<br>3 326  | 49                              | 27                           |   |                               |   |                          |                                   | 984                              |             |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |   |                                 |  |                                   | 39  |   | 107                             | 416                          |   |                               |   |                          |                                   | 3 887                            |             |
| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                                     |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios   |                                 |                              | Pellets/briq.<br>Granules/briq.<br>Pellets/briq.            | Charcoal<br>Charbon<br>Carbon | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total                             |                                  |             |
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica              | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Bioegas - Biogaz<br>- Biogás |   |                               |   |                          |                                   |                                  |             |
|   |                              |                            | <b>Primary energy - Énergie primaire - Energía primaria</b> |                                 |  |                                   |   |   |                                 |                              | <b>Primary energy - Énergie primaire - Energía primaria</b> |                               |   |                          |                                   |                                  |             |
| Production - Producción - Generación  | 385                          | 1 132                      | 649   | 113                             |  | 234                               | 757   | 7 420<br>513<br>- 369   | 5 801<br>3                      | 735                          |   | 263<br>- 520                  |   | 10 893<br>- 1 672        |                                   | 11 423<br>17 469<br>- 2 561<br>3 |             |
| Imports - Importations - Importaciones  |                              |                            |   |                                 |  |                                   |   |   |                                 |                              |   |                               |   |                          |                                   |                                  | 26 335<br>0 |
| Exports - Exportations - Exportaciones  |                              |                            |   |                                 |  |                                   |   |   |                                 |                              |   |                               |   |                          |                                   |                                  |             |
| Stock - Stocks - Inventario (+/-)   |                              |                            |   |                                 |  |                                   |   |   |                                 |                              |   |                               |   |                          |                                   |                                  |             |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>385</b>                   | <b>1 132</b>               | <b>649</b>  | <b>113</b>                      |  | <b>234</b>                        | <b>757</b>                                  | <b>7 563</b>  | <b>5 804</b><br>0               | <b>735</b>                   | <b>- 257</b>  |                               | <b>9 221</b>                            |                          |                                   |                                  |             |
| Differences - Ecarts - Diferencias  |                              |                            |   |                                 |  |                                   |   |   |                                 |                              |   |                               |   |                          |                                   |                                  |             |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |   |                                 |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                                 |                              |   |                               |   |                          |                                   |                                  |             |
| Electricity - Électricité - Electrica   | - 385                        | - 1 132                    | - 649   |                                 |  |                                   |   | - 534   | - 5 478<br>- 201                |                              |   | - 524<br>- 22                 |   | 2 165<br>1 399           | 4 287<br>190                      | - 1 459<br>- 34                  |             |
| CHP - Cogénération - Cogeneración   |                              |                            |   |                                 |  |                                   |   |   |                                 |                              |   |                               |   |                          |                                   |                                  |             |
| Heat - Chaleur - Calor  |                              |                            |   | - 0                             |  |                                   |   |   |                                 |                              |   |                               |   |                          |                                   |                                  |             |
| Charcoal - Charbon - Carbón   |                              |                            |   |                                 |  |                                   |   |   | - 1 355                         |                              |   |                               |   |                          |                                   |                                  |             |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |   |                                 |  |                                   |   |   |                                 |                              |   |                               |   |                          |                                   |                                  |             |
| Other - Autres - Otras  |                              |                            |   |                                 |  |                                   |   |   |                                 |                              |   |                               |   |                          |                                   |                                  |             |
| Own use - Consomm. propre - Uso propio  |                              |                            |   |                                 |  |                                   |   |   |                                 |                              |   |                               |   |                          |                                   |                                  |             |
| Distribution - Distribution - Distribución  |                              |                            |   |                                 |  |                                   |   |   |                                 |                              |   |                               |   |                          |                                   |                                  |             |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |   |                                 |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                                 |                              |   |                               |   |                          |                                   |                                  |             |
| <b>Total - Total - Total</b>  |                              |                            |   | 113                             |  | 234                               | 223   | 529<br>322  | 5 804                           | 211                          | 467   |                               | <b>10 303</b>                           | <b>3 968</b>             | <b>21 852</b>                     |                                  |             |
| Industry - Industrie - Industria  |                              |                            |   |                                 |  |                                   |   | 6<br>201  | 5 804                           | 23                           | 467   |                               | 4 748<br>268<br>3 715                   | 58<br>3 910              | 5 351<br>6 072                    |                                  |             |
| Transport - Transport - Transporte  |                              |                            |   | 113                             |  | 234                               |   |   |                                 |                              |   |                               | 1 516                                   |                          | 7 654                             |                                  |             |
| Commerce - Commerce - Comercial   |                              |                            |   |                                 |  |                                   |   |   |                                 |                              |   |                               | 56                                      | 0                        | 2 531                             |                                  |             |
| Residential - Résidentiel - Residencial   |                              |                            |   |                                 |  |                                   |   |   |                                 |                              |   |                               |   |                          |                                   | 244                              |             |
| Other - Autres - Otros  |                              |                            |   |                                 |  |                                   |   |   |                                 |                              |   |                               |   |                          |                                   |                                  |             |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |   |                                 |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                                 |                              |   |                               |   |                          |                                   |                                  |             |
| <b>Total - Total - Total</b>  | <b>1 145</b>                 | <b>3 369</b>               | <b>1 931</b>  | <b>113</b>                      |  | <b>234</b>                        | <b>720</b>                                  | <b>6 362</b>  | <b>5 804</b>                    | <b>978</b>                   | <b>1 196</b>  |                               |   |                          |                                   | <b>21 852</b>                    |             |
| Electricity - Électricité - Electrica   | 1 145                        | 3 369                      | 1 931   | 0                               |  |                                   | 456   | 2 444   | 653                             | 306                          |   |                               |   |                          |                                   | <b>10 303</b>                    |             |
| Heat - Chaleur - Calor  |                              |                            |   | 113                             |  | 234                               | 223   | 3 389   | 5 804                           | 114                          | 424   |                               |   |                          |                                   | <b>3 968</b>                     |             |
| Direct use - Utilisation directe - Uso directo  |                              |                            |   |                                 |  |                                   |   | 529   | 5 804                           | 211                          | 467   |                               |   |                          |                                   | <b>7 580</b>                     |             |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |   |                                 |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                                 |                              |   |                               |   |                          |                                   |                                  |             |
| Electricity - Électricité - Electrica (in/en GWh)   | 107                          | 314                        | 180   | 0                               |  |                                   | 43  | 228   | 61                              | 29                           |   |                               |   |                          |                                   | <b>961</b>                       |             |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |   |                                 |  |                                   | 42  | 3 455   | 117                             | 432                          |   |                               |   |                          |                                   | <b>4 046</b>                     |             |

## Madagascar

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                               |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios   |                             |  | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total                   |
|---|------------------------------|----------------------------|---|---------------------------------|-------------------------------|--|-----------------------------------|---|---|-----------------------------|--|--|-------------------------------|---|--------------------------|-------------------------|
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás |  |  |                               |   |                          |                         |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaaria |                                 |                               |  |                                   |   | Primary energy - Énergie primaire - Energía primaaria   |                             |  |  |                               |   |                          |                         |
| Production - Production - Generación  | 3 078                        | 2                          | 302   |                                 |                               |  |                                   |   | 178 450<br>0<br>- 4   |                             |  |  |                               |   |                          | 181 832<br>0<br>- 4     |
| Imports - Importations - Importaciones  |                              |                            |   |                                 |                               |  |                                   |   | 178 446   |                             |  |  | - 0                           |   |                          | 181 828<br>- 194        |
| Exports - Exportations - Exportaciones  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |  | - 0  |                               |   |                          |                         |
| Stock - Stocks - Inventario (+/-)   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |                         |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>3 078</b>                 | <b>2</b>                   | <b>302</b>  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |                         |
| Differences - Ecarts - Diferencias  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |                         |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |   |                                 |                               |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                             |  |  |                               |   |                          |                         |
| Electricity - Électricité - Eléctrica   | - 3 078                      | - 2                        | - 302   |                                 |                               |  |                                   |   | - 7   |                             |  |  |                               |   |                          | - 4                     |
| CHP - Cogénération - Cogeneración   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |                         |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |                               |  |                                   |   | - 107 718   |                             |  |  |                               |   |                          | - 58 957                |
| Charcoal - Charbon - Carbón   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |                         |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |                         |
| Other - Autres - Otras  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |                         |
| Own use - Consomm. propre - Uso propio  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |                         |
| Distribution - Distribution - Distribución  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |                         |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |   |                                 |                               |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                             |  |  |                               |   |                          |                         |
| Total - Total - Total   |                              |                            |   |                                 |                               |  |                                   |   | 70 722<br>3 653   |                             |  |  | 48 761<br>2 020               | 1737<br>411                             |                          | 121 220<br>6 083        |
| Industry - Industrie - Industria  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |                         |
| Transport - Transport - Transporte  |                              |                            |   |                                 |                               |  |                                   |   | 22 233  |                             |  |  | 11 356<br>35 385              | 136<br>834<br>356                       |                          | 33 725<br>81 056<br>356 |
| Commerce - Commerce - Comercial   |                              |                            |   |                                 |                               |  |                                   |   | 44 837  |                             |  |  |                               |   |                          |                         |
| Residential - Résidentiel - Residencial   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |                         |
| Other - Autres - Otros  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |                         |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |   |                                 |                               |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                             |  |  |                               |   |                          |                         |
| Total - Total - Total   | 1 580                        | 1                          | 155   |                                 |                               |  |                                   |   | 70 723<br>1   |                             |  |  | 48 761                        |   |                          | 121 220<br>1 737        |
| Electricity - Électricité - Eléctrica   | 1 580                        | 1                          | 155   |                                 |                               |  |                                   |   | 70 722  |                             |  |  | 48 761                        |   |                          | 119 483                 |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |                         |
| Direct use - Utilisation directe - Uso directo  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |                         |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |   |                                 |                               |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                             |  |  |                               |   |                          |                         |
| Electricity - Électricité - Eléctrica (in/en GWh)   | 855                          | 0                          | 84  |                                 |                               |  |                                   |   | 1   |                             |  |  |                               |   |                          | 940                     |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |                         |
| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                               |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios   |                             |  | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total                   |
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás |  |  |                               |   |                          |                         |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaaria |                                 |                               |  |                                   |   | Primary energy - Énergie primaire - Energía primaaria   |                             |  |  |                               |   |                          |                         |
| Production - Production - Generación  | 2 879                        | 2                          | 145   |                                 |                               |  |                                   |   | 175 469<br>0<br>- 4   |                             |  |  | 0                             |   |                          | 178 495<br>0<br>- 4     |
| Imports - Importations - Importaciones  |                              |                            |   |                                 |                               |  |                                   |   | 175 466   |                             |  |  | 0                             |   |                          | 178 492<br>- 113        |
| Exports - Exportations - Exportaciones  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |                         |
| Stock - Stocks - Inventario (+/-)   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |                         |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>2 879</b>                 | <b>2</b>                   | <b>145</b>  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |                         |
| Differences - Ecarts - Diferencias  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |                         |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |   |                                 |                               |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                             |  |  |                               |   |                          |                         |
| Electricity - Électricité - Eléctrica   | - 2 879                      | - 2                        | - 145   |                                 |                               |  |                                   |   | - 7   |                             |  |  |                               |   |                          | - 4                     |
| CHP - Cogénération - Cogeneración   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |                         |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |                               |  |                                   |   | - 105 048   |                             |  |  |                               |   |                          | - 57 496                |
| Charcoal - Charbon - Carbón   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |                         |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |                         |
| Other - Autres - Otras  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |                         |
| Own use - Consomm. propre - Uso propio  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |                         |
| Distribution - Distribution - Distribución  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |                         |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |   |                                 |                               |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                             |  |  |                               |   |                          |                         |
| Total - Total - Total   |                              |                            |   |                                 |                               |  |                                   |   | 70 411<br>3 805   |                             |  |  | 47 553<br>1969                | 2 094<br>473                            |                          | 120 057<br>6 247        |
| Industry - Industrie - Industria  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |                         |
| Transport - Transport - Transporte  |                              |                            |   |                                 |                               |  |                                   |   | 22 079<br>44 527  |                             |  |  | 11 076<br>34 507              | 157<br>1 053<br>410                     |                          | 33 313<br>80 087<br>410 |
| Commerce - Commerce - Comercial   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |                         |
| Residential - Résidentiel - Residencial   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |                         |
| Other - Autres - Otros  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |                         |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |   |                                 |                               |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                             |  |  |                               |   |                          |                         |
| Total - Total - Total   | 1 991                        | 1                          | 100   |                                 |                               |  |                                   |   | 70 412<br>2   |                             |  |  | 47 553                        |   |                          | 120 057<br>2 094        |
| Electricity - Électricité - Eléctrica   | 1 991                        | 1                          | 100   |                                 |                               |  |                                   |   | 70 411  |                             |  |  | 47 553                        |   |                          | 117 964                 |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |                         |
| Direct use - Utilisation directe - Uso directo  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |                         |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |   |                                 |                               |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                             |  |  |                               |   |                          |                         |
| Electricity - Électricité - Eléctrica (in/en GWh)   | 800                          | 0                          | 40  |                                 |                               |  |                                   |   | 1   |                             |  |  |                               |   |                          | 841                     |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |                         |

## Malawi

## Malawi

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Eoliennes<br>Éolica | Solar - Solaire - Solar                               |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primaires -<br>Biocombustibles primarios   |                             |  | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total          |
|---|------------------------------|-----------------------------|---|---------------------------------|-------------------------------|--|-----------------------------------|---|---|-----------------------------|--|--|-------------------------------|---|--------------------------|----------------|
|   |                              |                             | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás |  |  |                               |   |                          |                |
|   |                              |                             | Primary energy - Énergie primaire - Energía primaaria |                                 |                               |  |                                   |   | Primary energy - Énergie primaire - Energía primaaria   |                             |  |  |                               |   |                          |                |
| Production - Production - Generación  | 6 100                        |                             |   | 42                              |                               |  |                                   |   | 77 492  | 1                           |  |  | 0                             | - 2                                     | - 54                     | 83 633         |
| Imports - Importations - Importaciones  |                              |                             |   |                                 |                               |  |                                   |   | 77 493  |                             |  |  | - 2                           | - 54                                    | - 94                     | 1<br>- 56      |
| Exports - Exportations - Exportaciones  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          | 83 578<br>- 94 |
| Stock - Stocks - Inventario (+/-)   | 6 100                        |                             |   | 42                              |                               |  |                                   |   |   |                             |  |  |                               |   |                          |                |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>6 100</b>                 |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |                |
| Differences - Ecarts - Diferencias  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |                |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                             |   |                                 |                               |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                             |  |  |                               |   |                          |                |
| Electricity - Électricité - Electrica   | - 6 100                      |                             |   | - 42                            |                               |  |                                   |   | - 494   |                             |  |  | 6 142                         | 183                                     |                          | - 312          |
| CHP - Cogénération - Cogeneración   |                              |                             |   |                                 |                               |  |                                   |   | - 43 955  |                             |  |  | 19 897                        |   |                          | - 24 058       |
| Heat - Chaleur - Calor  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |                |
| Charcoal - Charbon - Carbón   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |                |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |                |
| Other - Autres - Otras  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |                |
| Own use - Consomm. propre - Uso propio  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |                |
| Distribution - Distribution - Distribución  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |                |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                             |   |                                 |                               |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                             |  |  |                               |   |                          |                |
| <b>Total - Total - Total</b>  |                              |                             |   |                                 |                               |  |                                   |   | <b>33 043</b>   | <b>6 817</b>                |  |  | <b>19 896</b>                 | <b>6 176</b>                            |                          | <b>59 114</b>  |
| Industry - Industrie - Industria  |                              |                             |   |                                 |                               |  |                                   |   | 26 226  |                             |  |  | 19 896                        | 2 583                                   |                          | 9 399          |
| Transport - Transport - Transporte  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          | 1 105          |
| Commerce - Commerce - Comercial   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          | 48 610         |
| Residential - Résidentiel - Residencial   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |                |
| Other - Autres - Otros  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |                |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                             |   |                                 |                               |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                             |  |  |                               |   |                          |                |
| <b>Total - Total - Total</b>  | <b>5 956</b>                 |                             |   | <b>41</b>                       |                               |  |                                   |   | <b>33 221</b>   | <b>178</b>                  |  |  | <b>19 896</b>                 |   |                          | <b>59 114</b>  |
| Electricity - Électricité - Electrica   | 5 956                        |                             |   | 41                              |                               |  |                                   |   | 33 043  |                             |  |  | 19 896                        |   |                          | 6 176          |
| Heat - Chaleur - Calor  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          | 52 939         |
| Direct use - Utilisation directe - Uso directo  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |                |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                             |   |                                 |                               |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                             |  |  |                               |   |                          |                |
| Electricity - Électricité - Electrica (in/en GWh)   | 1 694                        |                             |   | 12                              |                               |  |                                   |   | 51  |                             |  |  |                               |   |                          | 1 757          |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |                |
| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Eoliennes<br>Éolica | Solar - Solaire - Solar                               |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primaires -<br>Biocombustibles primarios   |                             |  | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total          |
|   |                              |                             | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás |  |  |                               |   |                          |                |
|   |                              |                             | Primary energy - Énergie primaire - Energía primaaria |                                 |                               |  |                                   |   | Primary energy - Énergie primaire - Energía primaaria   |                             |  |  |                               |   |                          |                |
| Production - Production - Generación  | 6 100                        |                             |   | 36                              |                               |  |                                   |   | 76 663  |                             |  |  | 0                             | - 54                                    |                          | 82 799         |
| Imports - Importations - Importaciones  |                              |                             |   |                                 |                               |  |                                   |   | 76 663  |                             |  |  | 0                             | - 54                                    |                          | 0<br>- 54      |
| Exports - Exportations - Exportaciones  | 6 100                        |                             |   | 36                              |                               |  |                                   |   |   |                             |  |  |                               |   |                          | 82 745<br>- 90 |
| Stock - Stocks - Inventario (+/-)   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |                |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>6 100</b>                 |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |                |
| Differences - Ecarts - Diferencias  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |                |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                             |   |                                 |                               |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                             |  |  |                               |   |                          |                |
| Electricity - Électricité - Electrica   | - 6 100                      |                             |   | - 36                            |                               |  |                                   |   | - 494   |                             |  |  | 6 136                         | 183                                     |                          | - 312          |
| CHP - Cogénération - Cogeneración   |                              |                             |   |                                 |                               |  |                                   |   | - 42 975  |                             |  |  | 19 454                        |   |                          | - 23 522       |
| Heat - Chaleur - Calor  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |                |
| Charcoal - Charbon - Carbón   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |                |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |                |
| Other - Autres - Otras  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |                |
| Own use - Consomm. propre - Uso propio  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |                |
| Distribution - Distribution - Distribución  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |                |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                             |   |                                 |                               |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                             |  |  |                               |   |                          |                |
| <b>Total - Total - Total</b>  |                              |                             |   |                                 |                               |  |                                   |   | <b>33 193</b>   | <b>6 817</b>                |  |  | <b>19 454</b>                 | <b>6 175</b>                            |                          | <b>58 822</b>  |
| Industry - Industrie - Industria  |                              |                             |   |                                 |                               |  |                                   |   | 26 376  |                             |  |  | 19 454                        | 2 674                                   |                          | 9 490          |
| Transport - Transport - Transporte  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          | 1 135          |
| Commerce - Commerce - Comercial   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          | 48 196         |
| Residential - Résidentiel - Residencial   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |                |
| Other - Autres - Otros  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |                |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                             |   |                                 |                               |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                             |  |  |                               |   |                          |                |
| <b>Total - Total - Total</b>  | <b>5 960</b>                 |                             |   | <b>35</b>                       |                               |  |                                   |   | <b>33 372</b>   | <b>179</b>                  |  |  | <b>19 454</b>                 |   |                          | <b>58 822</b>  |
| Electricity - Électricité - Electrica   | 5 960                        |                             |   | 35                              |                               |  |                                   |   | 33 193  |                             |  |  | 19 454                        |   |                          | 6 175          |
| Heat - Chaleur - Calor  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          | 52 647         |
| Direct use - Utilisation directe - Uso directo  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |                |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                             |   |                                 |                               |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                             |  |  |                               |   |                          |                |
| Electricity - Électricité - Electrica (in/en GWh)   | 1 694                        |                             |   | 10                              |                               |  |                                   |   | 51  |                             |  |  |                               |   |                          | 1 755          |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |                |

Mali

Mali

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                               |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                             |           | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Carbon<br>Carbon | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total         |
|---|------------------------------|----------------------------|---|---------------------------------|-------------------------------|--|-----------------------------------|---|---|-----------------------------|-----------|--|------------------------------|---|--------------------------|---------------|
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás |           |  |                              |   |                          |               |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaaria |                                 |                               |  |                                   |   | Primary energy - Énergie primaire - Energía primaaria                       |                             |           |  |                              |   |                          |               |
| Production - Production - Generación  | 6 128                        |                            |   | 548                             |                               |  |                                   |   | 81 231  | 4                           | 11        |  | 0                            | 959                                     |                          | 87 921        |
| Imports - Importations - Importaciones  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |           |  |                              | - 1254                                  |                          | 959           |
| Exports - Exportations - Exportaciones  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |           |  |                              |   |                          | - 1254        |
| Stock - Stocks - Inventario (+/-)   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |           |  |                              |   |                          |               |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>6 128</b>                 |                            |   | <b>548</b>                      |                               |  |                                   |   | <b>81 231</b>   | <b>4</b>                    | <b>11</b> |  | <b>0</b>                     | <b>- 295</b>                            |                          | <b>87 626</b> |
| Differences - Ecarts - Diferencias  |                              |                            |   |                                 |                               |  |                                   |   | - 1 817   |                             |           |  | 0                            | - 747                                   |                          | - 2 565       |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |           |  |                              |   |                          |               |
| Electricity - Électricité - Electrica   | - 6 128                      |                            |   | - 548                           |                               |  |                                   |   | - 128   | - 4                         | - 0       |  |                              | 6 808                                   |                          | - 0           |
| CHP - Cogénération - Cogeneración   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |           |  |                              |   |                          |               |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |           |  |                              |   |                          |               |
| Charcoal - Charbon - Carbón   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |           |  |                              |   |                          |               |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |           |  |                              |   |                          |               |
| Other - Autres - Otras  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |           |  |                              |   |                          |               |
| Own use - Consomm. propre - Uso propio  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |           |  |                              |   |                          |               |
| Distribution - Distribution - Distribución  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |           |  |                              |   |                          |               |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |           |  |                              |   |                          |               |
| Total - Total - Total   |                              |                            |   |                                 |                               |  |                                   |   | 46 898  |                             |           |  | 14 661                       | 4 379                                   |                          | 65 949        |
| Industry - Industrie - Industria  |                              |                            |   |                                 |                               |  |                                   |   | 13 048  |                             |           |  |                              | 1550                                    |                          | 14 598        |
| Transport - Transport - Transporte  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |           |  |                              |   |                          |               |
| Commerce - Commerce - Comercial   |                              |                            |   |                                 |                               |  |                                   |   | 33 850  |                             |           |  | 14 661                       | 1046                                    |                          | 10 447        |
| Residential - Résidentiel - Residencial   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |           |  |                              | 1783                                    |                          | 50 304        |
| Other - Autres - Otros  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |           |  |                              |   |                          |               |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |           |  |                              |   |                          |               |
| Total - Total - Total   | 3 942                        |                            |   | 352                             |                               |  |                                   |   | 46 980  | 2                           | 11        |  | 14 661                       |   |                          | 65 949        |
| Electricity - Électricité - Electrica   | 3 942                        |                            |   | 352                             |                               |  |                                   |   | 82  | 2                           | 0         |  |                              |   |                          | 4 379         |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |                               |  |                                   |   | 46 898  |                             |           |  | 14 661                       |   |                          | 61 570        |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |   |                                 |                               |  |                                   |   |   |                             |           |  |                              |   |                          |               |
| Electricity - Électricité - Electrica (in/en GWh)   | 1 702                        |                            |   | 152                             |                               |  |                                   |   | 36  | 1                           | 0         |  |                              |   |                          | 1 891         |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |           |  |                              |   |                          |               |
| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                               |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                             |           | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Carbon<br>Carbon | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total         |
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás |           |  |                              |   |                          |               |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaaria |                                 |                               |  |                                   |   | Primary energy - Énergie primaire - Energía primaaria                       |                             |           |  |                              |   |                          |               |
| Production - Production - Generación  | 6 128                        |                            |   | 523                             |                               |  |                                   |   | 80 589  | 4                           | 3         |  | 1                            | 968                                     |                          | 87 247        |
| Imports - Importations - Importaciones  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |           |  |                              | - 1265                                  |                          | 971           |
| Exports - Exportations - Exportaciones  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |           |  |                              |   |                          | - 1266        |
| Stock - Stocks - Inventario (+/-)   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |           |  |                              |   |                          |               |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>6 128</b>                 |                            |   | <b>523</b>                      |                               |  |                                   |   | <b>80 589</b>   | <b>4</b>                    | <b>3</b>  |  | <b>1</b>                     | <b>- 298</b>                            |                          | <b>86 952</b> |
| Differences - Ecarts - Diferencias  |                              |                            |   |                                 |                               |  |                                   |   | - 0   |                             |           |  | 1                            | - 681                                   |                          | - 681         |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |           |  |                              |   |                          |               |
| Electricity - Électricité - Electrica   | - 6 128                      |                            |   | - 523                           |                               |  |                                   |   | - 128   | - 4                         | - 0       |  |                              | 6 783                                   |                          | - 0           |
| CHP - Cogénération - Cogeneración   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |           |  |                              |   |                          |               |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |           |  |                              |   |                          |               |
| Charcoal - Charbon - Carbón   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |           |  |                              |   |                          |               |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |           |  |                              |   |                          |               |
| Other - Autres - Otras  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |           |  |                              |   |                          |               |
| Own use - Consomm. propre - Uso propio  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |           |  |                              |   |                          |               |
| Distribution - Distribution - Distribución  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |           |  |                              |   |                          |               |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |           |  |                              |   |                          |               |
| Total - Total - Total   |                              |                            |   |                                 |                               |  |                                   |   | 48 074  |                             |           |  | 14 662                       | 4 406                                   |                          | 67 147        |
| Industry - Industrie - Industria  |                              |                            |   |                                 |                               |  |                                   |   | 13 048  |                             |           |  |                              | 1764                                    |                          | 14 812        |
| Transport - Transport - Transporte  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |           |  |                              |   |                          |               |
| Commerce - Commerce - Comercial   |                              |                            |   |                                 |                               |  |                                   |   | 3 184   |                             |           |  | 14 662                       | 1052                                    |                          | 4 236         |
| Residential - Résidentiel - Residencial   |                              |                            |   |                                 |                               |  |                                   |   | 31 842  |                             |           |  |                              | 1590                                    |                          | 48 098        |
| Other - Autres - Otros  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |           |  |                              |   |                          |               |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |           |  |                              |   |                          |               |
| Total - Total - Total   | 3 981                        |                            |   | 340                             |                               |  |                                   |   | 48 157  | 2                           | 3         |  | 14 662                       |   |                          | 67 147        |
| Electricity - Électricité - Electrica   | 3 981                        |                            |   | 340                             |                               |  |                                   |   | 83  | 2                           | 0         |  |                              |   |                          | 4 406         |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |                               |  |                                   |   | 48 074  |                             |           |  | 14 662                       |   |                          | 62 740        |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |   |                                 |                               |  |                                   |   |   |                             |           |  |                              |   |                          |               |
| Electricity - Électricité - Electrica (in/en GWh)   | 1 702                        |                            |   | 145                             |                               |  |                                   |   | 36  | 1                           | 0         |  |                              |   |                          | 1 884         |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |           |  |                              |   |                          |               |

# Malta

# Malta

| 2022 (In/en TJ)   | Hydro/Marine<br>Hydro/Marina                                 | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                        |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                             |            | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total   |      |
|---|--|----------------------------|--|---------------------------------|-------------------------------|--|-----------------------------------|---|---|-----------------------------|------------|--|-------------------------------|---|--------------------------|---|------|
|   |  |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás |            |  |                               |   |                          |   |      |
|   | <b>Primary energy - Énergie primaire - Energía primaaria</b> |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |   |      |
| Production - Production - Generación  |  |                            | 0  | 1 042                           | 134                           |  |                                   | 779   |   | 37                          | 491        | 82   | 11                            | 10                                      | 301                      | 2 038   |      |
| Imports - Importations - Importaciones  |  |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   | - 3                      | 851   |      |
| Exports - Exportations - Exportaciones  |  |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          | 57  |      |
| Stock - Stocks - Inventario (+/-)   |  |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |   |      |
| <b>Supply - Approvisionnement - Oferta</b>  |  |                            | <b>0</b>                                       | <b>1 042</b>                    | <b>134</b>                    |  |                                   | <b>779</b>                                  |   | <b>37</b>                   | <b>548</b> | <b>82</b>  | <b>11</b>                     | <b>10</b>                               | <b>298</b>               | <b>2 942</b>  |      |
| Differences - Ecarts - Diferencias  |  |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |   |      |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |  |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |      |
| Electricity - Électricité - Electrica   |  |                            | - 0  | - 1 042                         |                               |  |                                   |   |   |                             |            | - 40   |                               |   |                          | 1 042   | 0    |
| CHP - Cogénération - Cogeneración   |  |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          | 27  | - 14 |
| Heat - Chaleur - Calor  |  |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          | - 25  |      |
| Charcoal - Charbon - Carbón   |  |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          | - 86  | - 86 |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |  |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |   |      |
| Other - Autres - Otras  |  |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |   |      |
| Own use - Consomm. propre - Uso propio  |  |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |   |      |
| Distribution - Distribution - Distribución  |  |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |   |      |
| <b>Final consumption - Consommation finale - Consumo final</b>  |  |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          | <b>Final consumption - Consommation finale - Consumo final</b>  |      |
| Total - Total - Total   |  |                            |  |                                 | 134                           |  |                                   | 779   |   | 37                          | 548        | 42   | 11                            | 10                                      | 1 256                    | 2 817   |      |
| Industry - Industrie - Industria  |  |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   | 235                      |   |      |
| Transport - Transport - Transporte  |  |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   | 5                        | 533   |      |
| Commerce - Commerce - Comercial   |  |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   | 526                      | 872   |      |
| Residential - Résidentiel - Residencial   |  |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   | 469                      | 1 136   |      |
| Other - Autres - Otros  |  |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   | 21                       | 41  |      |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |  |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |      |
| Total - Total - Total   |  |                            | 0  | 1 224                           | 134                           |  |                                   | 779   |   | 37                          | 548        | 73   | 11                            | 10                                      |                          | 2 817   |      |
| Electricity - Électricité - Electrica   |  |                            | 0  | 1 224                           |                               |  |                                   |   |   |                             |            | 31   |                               |   |                          | 1 256   |      |
| Heat - Chaleur - Calor  |  |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |   |      |
| Direct use - Utilisation directe - Uso directo  |  |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |   |      |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |  |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |      |
| Electricity - Électricité - Electrica (in/en GWh)   |  |                            | 0  | 290                             |                               |  |                                   |   |   |                             |            |  | 7                             |   |                          |   | 297  |
| Heat - Chaleur - Calor (in/en TJ)   |  |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |   |      |
| 2021 (In/en TJ)   | Hydro/Marine<br>Hydro/Marina                                 | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                        |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                             |            | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total   |      |
|   |  |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás |            |  |                               |   |                          |   |      |
|   |  |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |   |      |
| <b>Primary energy - Énergie primaire - Energía primaaria</b>  |  |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          | <b>Primary energy - Énergie primaire - Energía primaaria</b>  |      |
| Production - Production - Generación  |  |                            | 0  | 921                             | 151                           |  |                                   | 690   |   | 55                          | 585        | 81   | 11                            | 10                                      | 234                      | 1 842   |      |
| Imports - Importations - Importaciones  |  |                            |  |                                 |                               |  |                                   |   |   |                             |            | - 122  |                               |   | - 15                     | 895   |      |
| Exports - Exportations - Exportaciones  |  |                            |  |                                 |                               |  |                                   |   |   |                             |            | 462  | 81                            | 10                                      | 219                      | - 122   |      |
| Stock - Stocks - Inventario (+/-)   |  |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          | 2 599   |      |
| <b>Supply - Approvisionnement - Oferta</b>  |  |                            | <b>0</b>                                       | <b>921</b>                      | <b>151</b>                    |  |                                   | <b>690</b>                                  |   | <b>55</b>                   | <b>462</b> | <b>81</b>  | <b>11</b>                     | <b>10</b>                               | <b>219</b>               | <b>2 599</b>  |      |
| Differences - Ecarts - Diferencias  |  |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |   |      |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |  |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |      |
| Electricity - Électricité - Electrica   |  |                            | - 0  | - 921                           |                               |  |                                   |   |   |                             |            |  |                               |   |                          | 921   | 0    |
| CHP - Cogénération - Cogeneración   |  |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   | 26                       | - 30  |      |
| Heat - Chaleur - Calor  |  |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   | - 25                     |   |      |
| Charcoal - Charbon - Carbón   |  |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   | - 71                     | - 71  |      |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |  |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |   |      |
| Other - Autres - Otras  |  |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |   |      |
| Own use - Consomm. propre - Uso propio  |  |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |   |      |
| Distribution - Distribution - Distribución  |  |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |   |      |
| <b>Final consumption - Consommation finale - Consumo final</b>  |  |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          | <b>Final consumption - Consommation finale - Consumo final</b>  |      |
| Total - Total - Total   |  |                            |  |                                 | 151                           |  |                                   | 690   |   | 55                          | 462        | 25   | 11                            | 10                                      | 1 070                    | 2 474   |      |
| Industry - Industrie - Industria  |  |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   | 210                      |   |      |
| Transport - Transport - Transporte  |  |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   | 3                        | 448   |      |
| Commerce - Commerce - Comercial   |  |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   | 433                      | 727   |      |
| Residential - Résidentiel - Residencial   |  |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   | 405                      | 1 052   |      |
| Other - Autres - Otros  |  |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   | 20                       | 37  |      |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |  |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |      |
| Total - Total - Total   |  |                            | 0  | 1 040                           | 151                           |  |                                   | 690   |   | 55                          | 462        | 54   | 11                            | 10                                      |                          | 2 474   |      |
| Electricity - Électricité - Electrica   |  |                            | 0  | 1 040                           |                               |  |                                   |   |   |                             |            | 29   |                               |   |                          | 1 070   |      |
| Heat - Chaleur - Calor  |  |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |   |      |
| Direct use - Utilisation directe - Uso directo  |  |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |   |      |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |  |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |      |
| Electricity - Électricité - Electrica (in/en GWh)   |  |                            | 0  | 256                             |                               |  |                                   |   |   |                             |            |  | 7                             |   |                          | 263   |      |
| Heat - Chaleur - Calor (in/en TJ)   |  |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |   |      |

## Mauritius

## Mauritius

| 2022 (in/en TJ)  | Hydro/Marine<br>Hydro/Marina | Wind<br>Eoliennes<br>Éolica | Solar - Solaire - Solar                               |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                             |           | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbon | Electricity<br>Électricité<br>Electricidad | Heat<br>Chaleur<br>Calor | Total        |
|--|------------------------------|-----------------------------|---|---------------------------------|-------------------------------|--|-----------------------------------|---|---|-----------------------------|-----------|--|-------------------------------|--|--------------------------|--------------|
|  |                              |                             | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás |           |  |                               |  |                          |              |
|  |                              |                             | Primary energy - Énergie primaire - Energía primaaria |                                 |                               |  |                                   |   |   |                             |           |  |                               |  |                          |              |
| Production - Production - Generación   | 467                          | 56                          | 564   |                                 |                               |  |                                   |   | 5 112   | 1                           | 62        |  | 9                             |  |                          | 6 261        |
| Imports - Importations - Importaciones   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |           |  |                               |  |                          | 10           |
| Exports - Exportations - Exportaciones   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |           |  |                               |  |                          |              |
| Stock - Stocks - Inventario (+/-)  |                              |                             |   |                                 |                               |  |                                   |   | 5 114   | 0                           | 62        |  | 9                             |  |                          | 6 271        |
| <b>Supply - Approvisionnement - Oferta</b>   | <b>467</b>                   | <b>56</b>                   | <b>564</b>  |                                 |                               |  |                                   |   |   |                             |           |  |                               |  |                          | <b>14</b>    |
| Differences - Ecarts - Diferencias   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |           |  |                               |  |                          |              |
| Transformation and losses - Transformation et pertes - Transformación y pérdidas   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |           |  |                               |  |                          |              |
| Electricity - Électricité - Electrica  | - 467                        | - 56                        | - 564   |                                 |                               |  |                                   |   | - 4 585   |                             | - 62      |  | 1148                          |  |                          | - 0          |
| CHP - Cogénération - Cogeneración  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |           |  | 1019                          |  |                          | - 3 567      |
| Heat - Chaleur - Calor   |                              |                             |   |                                 |                               |  |                                   |   |   | - 17                        |           |  |                               |  |                          | - 17         |
| Charcoal - Charbon - Carbón  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |           |  |                               |  |                          |              |
| Pellets/briq. - Granules/briq. - Pellets/briq.   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |           |  |                               |  |                          |              |
| Other - Autres - Otras   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |           |  | - 41                          |  |                          | - 41         |
| Own use - Consomm. propre - Uso propio   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |           |  | - 120                         |  |                          | - 120        |
| Distribution - Distribution - Distribución   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |           |  |                               |  |                          |              |
| Final consumption - Consommation finale - Consumo final  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |           |  |                               |  |                          |              |
| <b>Total - Total - Total</b>   |                              |                             |   |                                 |                               |  |                                   |   | <b>511</b>  | <b>375</b>                  |           |  | <b>17</b>                     | <b>2 004</b>                               |                          | <b>2 532</b> |
| Industry - Industrie - Industria   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |           |  | 605                           |  |                          | 980          |
| Transport - Transport - Transporte   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |           |  | 6                             |  |                          | 6            |
| Commerce - Commerce - Comercial  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |           |  | 666                           |  |                          | 682          |
| Residential - Résidentiel - Residencial  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |           |  | 2                             |  |                          | 823          |
| Other - Autres - Otros   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |           |  | 41                            |  |                          | 41           |
| Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |           |  |                               |  |                          |              |
| <b>Total - Total - Total</b>   | <b>432</b>                   | <b>52</b>                   | <b>521</b>  |                                 |                               |  |                                   |   | <b>1453</b>   |                             | <b>57</b> |  | <b>17</b>                     |  |                          | <b>2 532</b> |
| Electricity - Électricité - Electrica  | 432                          | 52                          | 521   |                                 |                               |  |                                   |   | 942   |                             | 57        |  |                               |  |                          | 2 004        |
| Heat - Chaleur - Calor   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |           |  | 511                           |  |                          | 529          |
| Direct use - Utilisation directe - Uso directo   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |           |  |                               | 17   |                          |              |
| Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor |                              |                             |   |                                 |                               |  |                                   |   |   |                             |           |  |                               |  |                          |              |
| Electricity - Électricité - Electrica (in/en GWh)  | 130                          | 15                          | 157   |                                 |                               |  |                                   |   | 283   |                             | 17        |  |                               |  |                          | 602          |
| Heat - Chaleur - Calor (in/en TJ)  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |           |  |                               |  |                          |              |
| 2021 (in/en TJ)  | Hydro/Marine<br>Hydro/Marina | Wind<br>Eoliennes<br>Éolica | Solar - Solaire - Solar                               |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                             |           | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbon | Electricity<br>Électricité<br>Electricidad | Heat<br>Chaleur<br>Calor | Total        |
|  |                              |                             | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás |           |  |                               |  |                          |              |
|  |                              |                             | Primary energy - Énergie primaire - Energía primaaria |                                 |                               |  |                                   |   |   |                             |           |  |                               |  |                          |              |
| Production - Production - Generación   | 390                          | 55                          | 563   |                                 |                               |  |                                   |   | 6 002   |                             | 69        |  | 6                             |  |                          | 7 078        |
| Imports - Importations - Importaciones   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |           |  |                               |  |                          | 6            |
| Exports - Exportations - Exportaciones   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |           |  |                               |  |                          |              |
| <b>Supply - Approvisionnement - Oferta</b>   | <b>390</b>                   | <b>55</b>                   | <b>563</b>  |                                 |                               |  |                                   |   | <b>6 002</b>  | <b>- 0</b>                  | <b>69</b> |  | <b>6</b>                      |  |                          | <b>7 084</b> |
| Differences - Ecarts - Diferencias   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |           |  | 18                            |  |                          | 15           |
| Transformation and losses - Transformation et pertes - Transformación y pérdidas   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |           |  |                               |  |                          |              |
| Electricity - Électricité - Electrica  | - 390                        | - 55                        | - 563   |                                 |                               |  |                                   |   | - 5 344   |                             | - 69      |  | 1 076                         |  |                          | - 0          |
| CHP - Cogénération - Cogeneración  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |           |  | 1259                          |  |                          | - 4 085      |
| Heat - Chaleur - Calor   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |           |  |                               |  |                          | - 18         |
| Charcoal - Charbon - Carbón  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |           |  |                               |  |                          |              |
| Pellets/briq. - Granules/briq. - Pellets/briq.   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |           |  |                               |  |                          |              |
| Other - Autres - Otras   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |           |  | - 41                          |  |                          | - 41         |
| Own use - Consomm. propre - Uso propio   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |           |  | - 149                         |  |                          | - 149        |
| Distribution - Distribution - Distribución   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |           |  |                               |  |                          |              |
| Final consumption - Consommation finale - Consumo final  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |           |  |                               |  |                          |              |
| <b>Total - Total - Total</b>   |                              |                             |   |                                 |                               |  |                                   |   | <b>639</b>  | <b>498</b>                  |           |  | <b>15</b>                     | <b>2 142</b>                               |                          | <b>2 796</b> |
| Industry - Industrie - Industria   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |           |  | 699                           |  |                          | 197          |
| Transport - Transport - Transporte   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |           |  | 4                             |  |                          | 4            |
| Commerce - Commerce - Comercial  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |           |  | 13                            |  |                          | 648          |
| Residential - Résidentiel - Residencial  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |           |  | 2                             |  |                          | 909          |
| Other - Autres - Otros   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |           |  | 38                            |  |                          | 38           |
| Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |           |  |                               |  |                          |              |
| <b>Total - Total - Total</b>   | <b>358</b>                   | <b>51</b>                   | <b>516</b>  |                                 |                               |  |                                   |   | <b>1 794</b>  |                             | <b>63</b> |  | <b>15</b>                     |  |                          | <b>2 796</b> |
| Electricity - Électricité - Electrica  | 358                          | 51                          | 516   |                                 |                               |  |                                   |   | 1 155   |                             | 63        |  |                               |  |                          | 2 142        |
| Heat - Chaleur - Calor   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |           |  | 639                           |  |                          | 654          |
| Direct use - Utilisation directe - Uso directo   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |           |  | 15                            |  |                          |              |
| Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor |                              |                             |   |                                 |                               |  |                                   |   |   |                             |           |  |                               |  |                          |              |
| Electricity - Électricité - Electrica (in/en GWh)  | 108                          | 15                          | 156   |                                 |                               |  |                                   |   | 350   |                             | 19        |  |                               |  |                          | 649          |
| Heat - Chaleur - Calor (in/en TJ)  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |           |  |                               |  |                          |              |

## Mayotte

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina                                 | Wind<br>Eoliennes<br>Eólica | Solar - Solaire - Solar                        |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                             |  | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total |
|---|--|-----------------------------|--|---------------------------------|-------------------------------|--|-----------------------------------|---|---|-----------------------------|--|--|-------------------------------|---|--------------------------|-------|
|   |  |                             | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás |  |  |                               |   |                          |       |
|   | <b>Primary energy - Énergie primaire - Energía primaaria</b> |                             |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |       |
| Production - Production - Generación  |  |                             |  | 160                             |                               |  |                                   |   |   | 301                         |  |  |                               |   |                          | 461   |
| Imports - Importations - Importaciones  |  |                             |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |       |
| Exports - Exportations - Exportaciones  |  |                             |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |       |
| Stock - Stocks - Inventario (+/-)   |  |                             |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |       |
| <b>Supply - Approvisionnement - Oferta</b>  |  |                             |  | 160                             |                               |  |                                   |   |   | 301                         |  |  |                               |   |                          | 461   |
| Differences - Ecarts - Diferencias  |  |                             |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          | - 23  |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |  |                             |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |       |
| Electricity - Électricité - Electrica   |  |                             |  | - 160                           |                               |  |                                   |   |   |                             |  |  |                               |   |                          |       |
| CHP - Cogénération - Cogeneración   |  |                             |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |       |
| Heat - Chaleur - Calor  |  |                             |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |       |
| Charcoal - Charbon - Carbón   |  |                             |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |       |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |  |                             |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |       |
| Other - Autres - Otras  |  |                             |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |       |
| Own use - Consomm. propre - Uso propio  |  |                             |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |       |
| Distribution - Distribution - Distribución  |  |                             |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |       |
| <b>Final consumption - Consommation finale - Consumo final</b>  |  |                             |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |       |
| <b>Total - Total - Total</b>  |  |                             |  |                                 |                               |  |                                   |   |   | 301                         |  |  |                               |   |                          | 437   |
| Industry - Industrie - Industria  |  |                             |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |       |
| Transport - Transport - Transporte  |  |                             |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |       |
| Commerce - Commerce - Comercial   |  |                             |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |       |
| Residential - Résidentiel - Residencial   |  |                             |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          | 15    |
| Other - Autres - Otros  |  |                             |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          | 373   |
|   |  |                             |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          | 49    |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |  |                             |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |       |
| <b>Total - Total - Total</b>  |  |                             |  | 137                             |                               |  |                                   |   |   | 301                         |  |  |                               |   |                          | 437   |
| Electricity - Électricité - Electrica   |  |                             |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          | 137   |
| Heat - Chaleur - Calor  |  |                             |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |       |
| Direct use - Utilisation directe - Uso directo  |  |                             |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          | 301   |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |  |                             |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |       |
| Electricity - Électricité - Electrica (in/en GWh)   |  |                             |  | 44                              |                               |  |                                   |   |   |                             |  |  |                               |   |                          | 44    |
| Heat - Chaleur - Calor (in/en TJ)   |  |                             |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |       |
| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina                                 | Wind<br>Eoliennes<br>Eólica | Solar - Solaire - Solar                        |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                             |  | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total |
|   |  |                             | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos | Liquid - Liquides<br>- Líquidos          | Biogas - Biogaz<br>- Biogás       |   |   |                             |  |  |                               |   |                          |       |
|   | <b>Primary energy - Énergie primaire - Energía primaaria</b> |                             |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |       |
| Production - Production - Generación  |  |                             |  | 160                             |                               |  |                                   |   |   | 301                         |  |  |                               |   |                          | 461   |
| Imports - Importations - Importaciones  |  |                             |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |       |
| Exports - Exportations - Exportaciones  |  |                             |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |       |
| Stock - Stocks - Inventario (+/-)   |  |                             |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |       |
| <b>Supply - Approvisionnement - Oferta</b>  |  |                             |  | 160                             |                               |  |                                   |   |   | 301                         |  |  |                               |   |                          | 461   |
| Differences - Ecarts - Diferencias  |  |                             |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          | - 23  |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |  |                             |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |       |
| Electricity - Électricité - Electrica   |  |                             |  | - 160                           |                               |  |                                   |   |   |                             |  |  |                               |   |                          |       |
| CHP - Cogénération - Cogeneración   |  |                             |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |       |
| Heat - Chaleur - Calor  |  |                             |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |       |
| Charcoal - Charbon - Carbón   |  |                             |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |       |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |  |                             |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |       |
| Other - Autres - Otras  |  |                             |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |       |
| Own use - Consomm. propre - Uso propio  |  |                             |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |       |
| Distribution - Distribution - Distribución  |  |                             |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |       |
| <b>Final consumption - Consommation finale - Consumo final</b>  |  |                             |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |       |
| <b>Total - Total - Total</b>  |  |                             |  |                                 |                               |  |                                   |   |   | 301                         |  |  |                               |   |                          | 437   |
| Industry - Industrie - Industria  |  |                             |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |       |
| Transport - Transport - Transporte  |  |                             |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |       |
| Commerce - Commerce - Comercial   |  |                             |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |       |
| Residential - Résidentiel - Residencial   |  |                             |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          | 15    |
| Other - Autres - Otros  |  |                             |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          | 373   |
|   |  |                             |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          | 49    |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |  |                             |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |       |
| <b>Total - Total - Total</b>  |  |                             |  | 137                             |                               |  |                                   |   |   | 301                         |  |  |                               |   |                          | 437   |
| Electricity - Électricité - Electrica   |  |                             |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          | 137   |
| Heat - Chaleur - Calor  |  |                             |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |       |
| Direct use - Utilisation directe - Uso directo  |  |                             |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          | 301   |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |  |                             |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |       |
| Electricity - Électricité - Electrica (in/en GWh)   |  |                             |  | 44                              |                               |  |                                   |   |   |                             |  |  |                               |   |                          | 44    |
| Heat - Chaleur - Calor (in/en TJ)   |  |                             |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |       |

## Mexico

## Mexico

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                              |                                 |   | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios   |         |              | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total          |  |  |  |  |  |
|---|--|----------------------------|--|---------------------------------|---|--|-----------------------------------|---|---|---------|--------------|--|-------------------------------|---|--------------------------|----------------|--|--|--|--|--|
|   |  |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica       | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>Liquids - Liquides<br>Biogas - Biogaz<br>- Biogás |  |                                   |   | Primary energy - Énergie primaire - Energía primaria  |         |              |  |                               |   |                          |                |  |  |  |  |  |
|   |  |                            | Primary energy - Énergie primaire - Energía primaria |                                 |   |  |                                   |   | Primary energy - Énergie primaire - Energía primaria  |         |              |  |                               |   |                          |                |  |  |  |  |  |
| Production - Production - Generación  | 129 064                                      | 74 264                     | 74 005   | 60 070                          | 98 160  |  |                                   |   | 355 740   |         | 2 400        |  | 14                            | 1 720                                   |                          | 793 703        |  |  |  |  |  |
| Imports - Importations - Importaciones  |  |                            |  |                                 |   |  |                                   |   |   |         |              |  | - 3 041                       | - 1 940                                 |                          | 1 734          |  |  |  |  |  |
| Exports - Exportations - Exportaciones  |  |                            |  |                                 |   |  |                                   |   |   |         |              |  |                               |   |                          | - 4 981        |  |  |  |  |  |
| Stock - Stocks - Inventario (+/-)   |  |                            |  |                                 |   |  |                                   |   |   |         |              |  |                               |   |                          |                |  |  |  |  |  |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>129 064</b>                               | <b>74 264</b>              | <b>74 005</b>  | <b>60 070</b>                   | <b>98 160</b>   |  |                                   |   | <b>355 740</b>  |         | <b>2 400</b> |  | <b>- 3 027</b>                | <b>- 220</b>                            |                          | <b>790 456</b> |  |  |  |  |  |
| Differences - Ecarts - Diferencias  |  |                            |  |                                 |   |  |                                   |   |   |         |              |  |                               |   |                          | - 2 860        |  |  |  |  |  |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |  |                            |  |                                 |   |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |         |              |  |                               |   |                          |                |  |  |  |  |  |
| Electricity - Électricité - Electrica   | - 129 064                                    | - 74 264                   | - 74 005   |                                 | - 98 160  |  |                                   |   | - 36 540  |         | - 1 224      |  |                               |   |                          | - 115 681      |  |  |  |  |  |
| CHP - Cogénération - Cogeneración   |  |                            |  |                                 |   |  |                                   |   | - 11 590  |         | - 1176       |  |                               |   |                          | - 9 490        |  |  |  |  |  |
| Heat - Chaleur - Calor  |  |                            |  |                                 |   |  |                                   |   |   | - 9 461 |              |  |                               |   |                          | - 4 991        |  |  |  |  |  |
| Charcoal - Charbon - Carbón   |  |                            |  |                                 |   |  |                                   |   |   |         |              |  |                               |   |                          |                |  |  |  |  |  |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |  |                            |  |                                 |   |  |                                   |   |   |         |              |  |                               |   |                          |                |  |  |  |  |  |
| Other - Autres - Otras  |  |                            |  |                                 |   |  |                                   |   |   |         |              |  |                               |   |                          | - 9 680        |  |  |  |  |  |
| Own use - Consomm. propre - Uso propio  |  |                            |  |                                 |   |  |                                   |   |   |         |              |  |                               |   |                          | - 28 383       |  |  |  |  |  |
| Distribution - Distribution - Distribución  |  |                            |  |                                 |   |  |                                   |   |   |         |              |  |                               |   |                          |                |  |  |  |  |  |
| <b>Final consumption - Consommation finale - Consumo final</b>  |  |                            |  |                                 |   |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |         |              |  |                               |   |                          |                |  |  |  |  |  |
| <b>Total - Total - Total</b>  |  |                            |  | <b>60 070</b>                   |   |  |                                   |   | <b>297 149</b>  |         |              |  | <b>1 444</b>                  | <b>232 516</b>                          |                          | <b>591 178</b> |  |  |  |  |  |
| Industry - Industrie - Industria  |  |                            |  | 1 140                           |   |  |                                   |   | 62 140  |         |              |  |                               |   |                          | 207 078        |  |  |  |  |  |
| Transport - Transport - Transporte  |  |                            |  |                                 |   |  |                                   |   |   |         |              |  |                               |   |                          | 1 308          |  |  |  |  |  |
| Commerce - Commerce - Comercial   |  |                            |  | 6 870                           |   |  |                                   |   |   |         |              |  |                               |   |                          | 16 605         |  |  |  |  |  |
| Residential - Résidentiel - Residencial   |  |                            |  | 52 060                          |   |  |                                   |   |   |         |              |  |                               |   |                          | 58 936         |  |  |  |  |  |
| Other - Autres - Otros  |  |                            |  |                                 |   |  |                                   |   |   |         |              |  |                               |   |                          | 11 869         |  |  |  |  |  |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |  |                            |  |                                 |   |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |         |              |  |                               |   |                          |                |  |  |  |  |  |
| <b>Total - Total - Total</b>  | <b>99 748</b>                                | <b>57 396</b>              | <b>57 196</b>  | <b>60 070</b>                   | <b>12 620</b>   |  |                                   |   | <b>302 137</b>  |         | <b>568</b>   |  | <b>1 444</b>                  |   |                          | <b>591 178</b> |  |  |  |  |  |
| Electricity - Électricité - Electrica   | 99 748                                       | 57 396                     | 57 196   |                                 | 12 620  |  |                                   |   | 4 989   |         | 568          |  |                               |   |                          | 232 516        |  |  |  |  |  |
| Heat - Chaleur - Calor  |  |                            |  |                                 | 60 070  |  |                                   |   |   |         |              |  |                               |   |                          |                |  |  |  |  |  |
| Direct use - Utilisation directe - Uso directo  |  |                            |  |                                 |   |  |                                   |   | 297 149   |         |              |  |                               |   |                          | 358 662        |  |  |  |  |  |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |  |                            |  |                                 |   |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |         |              |  |                               |   |                          |                |  |  |  |  |  |
| Electricity - Électricité - Electrica (in/en GWh)   | 35 851                                       | 20 629                     | 20 557   |                                 |   | 4 536                                    |                                   |   |   | 1 793   |              | 204  |                               |   |                          |                | 83 570   |  |  |  |  |
| Heat - Chaleur - Calor (in/en TJ)   |  |                            |  |                                 |   |  |                                   |   |   |         |              |  |                               |   |                          |                |  |  |  |  |  |
| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                              |                                 |   | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios   |         |              | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total          |  |  |  |  |  |
|   |  |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica       | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>Liquids - Liquides<br>Biogas - Biogaz<br>- Biogás |  |                                   |   |   |         |              |  |                               |   |                          |                |  |  |  |  |  |
|   |  |                            | Primary energy - Énergie primaire - Energía primaria |                                 |   |  |                                   |   | Primary energy - Énergie primaire - Energía primaria  |         |              |  |                               |   |                          |                | Primary energy - Énergie primaire - Energía primaria |  |  | Primary energy - Énergie primaire - Energía primaria |  |
| Production - Production - Generación  | 118 328                                      | 75 226                     | 46 892   | 42 100                          | 92 200  |  |                                   |   | 348 300   |         | 2 141        |  | 77                            | 1 199                                   |                          | 725 187        |  |  |  |  |  |
| Imports - Importations - Importaciones  |  |                            |  |                                 |   |  |                                   |   |   |         |              |  | - 4 283                       | - 1 861                                 |                          | 1 276          |  |  |  |  |  |
| Exports - Exportations - Exportaciones  |  |                            |  |                                 |   |  |                                   |   |   |         |              |  |                               |   |                          | - 6 143        |  |  |  |  |  |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>118 328</b>                               | <b>75 226</b>              | <b>46 892</b>  | <b>42 100</b>                   | <b>92 200</b>   |  |                                   |   | <b>348 300</b>  |         | <b>2 141</b> |  | <b>- 4 205</b>                | <b>- 662</b>                            |                          | <b>720 320</b> |  |  |  |  |  |
| Differences - Ecarts - Diferencias  |  |                            |  |                                 |   |  |                                   |   |   |         |              |  |                               |   |                          | 79             |  |  |  |  |  |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |  |                            |  |                                 |   |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |         |              |  |                               |   |                          |                |  |  |  |  |  |
| Electricity - Électricité - Electrica   | - 118 328                                    | - 75 226                   | - 46 892   |                                 | - 89 960  |  |                                   |   | - 6 800   |         | - 1 341      |  |                               |   |                          | - 78 985       |  |  |  |  |  |
| CHP - Cogénération - Cogeneración   |  |                            |  |                                 | - 2 240   |  |                                   |   | - 48 680  |         | - 800        |  |                               |   |                          | - 49 092       |  |  |  |  |  |
| Heat - Chaleur - Calor  |  |                            |  |                                 |   |  |                                   |   |   |         |              |  |                               |   |                          | - 4 264        |  |  |  |  |  |
| Charcoal - Charbon - Carbón   |  |                            |  |                                 |   |  |                                   |   |   |         |              |  |                               |   |                          |                |  |  |  |  |  |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |  |                            |  |                                 |   |  |                                   |   |   |         |              |  |                               |   |                          |                |  |  |  |  |  |
| Other - Autres - Otras  |  |                            |  |                                 |   |  |                                   |   |   |         |              |  |                               |   |                          | - 1 577        |  |  |  |  |  |
| Own use - Consomm. propre - Uso propio  |  |                            |  |                                 |   |  |                                   |   |   |         |              |  |                               |   |                          | - 24 470       |  |  |  |  |  |
| Distribution - Distribution - Distribución  |  |                            |  |                                 |   |  |                                   |   |   |         |              |  |                               |   |                          |                |  |  |  |  |  |
| <b>Final consumption - Consommation finale - Consumo final</b>  |  |                            |  |                                 |   |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |         |              |  |                               |   |                          |                |  |  |  |  |  |
| <b>Total - Total - Total</b>  |  |                            |  | <b>42 090</b>                   |   |  |                                   |   | <b>284 657</b>  |         |              |  | <b>- 386</b>                  | <b>201 326</b>                          |                          | <b>527 687</b> |  |  |  |  |  |
| Industry - Industrie - Industria  |  |                            |  | 1 280                           |   |  |                                   |   | 47 150  |         |              |  |                               |   |                          | <b>178 961</b> |  |  |  |  |  |
| Transport - Transport - Transporte  |  |                            |  |                                 |   |  |                                   |   |   |         |              |  |                               |   |                          | 1 091          |  |  |  |  |  |
| Commerce - Commerce - Comercial   |  |                            |  | 6 640                           |   |  |                                   |   |   |         |              |  |                               |   |                          | 19 054         |  |  |  |  |  |
| Residential - Résidentiel - Residencial   |  |                            |  | 34 170                          |   |  |                                   |   |   |         |              |  |                               |   |                          | 319 254        |  |  |  |  |  |
| Other - Autres - Otros  |  |                            |  |                                 |   |  |                                   |   |   |         |              |  |                               |   |                          | 9 327          |  |  |  |  |  |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |  |                            |  |                                 |   |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |         |              |  |                               |   |                          |                |  |  |  |  |  |
| <b>Total - Total - Total</b>  | <b>90 860</b>                                | <b>57 763</b>              | <b>36 007</b>  | <b>42 090</b>                   | <b>12 061</b>   |  |                                   |   | <b>288 715</b>  |         | <b>578</b>   |  | <b>- 386</b>                  |   |                          | <b>527 687</b> |  |  |  |  |  |
| Electricity - Électricité - Electrica   | 90 860                                       | 57 763                     | 36 007   |                                 | 12 061  |  |                                   |   | 4 058   |         | 578          |  |                               |   |                          | 201 326        |  |  |  |  |  |
| Heat - Chaleur - Calor  |  |                            |  |                                 | 42 090  |  |                                   |   |   |         |              |  |                               |   |                          | 326 361        |  |  |  |  |  |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |  |                            |  |                                 |   |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |         |              |  |                               |   |                          |                |  |  |  |  |  |
| Electricity - Électricité - Electrica (in/en GWh)   | 32 869                                       | 20 896                     | 13 026   |                                 |   | 4 363                                    |                                   |   |   | 1 468   |              | 209  |                               |   |                          |                | 72 831   |  |  |  |  |
| Heat - Chaleur - Calor (in/en TJ)   |  |                            |  |                                 |   |  |                                   |   |   |         |              |  |                               |   |                          |                |  |  |  |  |  |

## Micronesia (Federated States of)

| 2022 (In/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                               |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios   |                                 |                             | Pellets/briq.<br>Granules/briq.<br>Pellets/briq.      | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total     |
|---|------------------------------|----------------------------|---|---------------------------------|--|-----------------------------------|---|---|---------------------------------|-----------------------------|---|-------------------------------|---|--------------------------|-----------|
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás |   |                               |   |                          |           |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaaria |                                 |  |                                   |   |   |                                 |                             | Primary energy - Énergie primaire - Energía primaaria |                               |   |                          |           |
| Production - Production - Generación  | 5                            | 3                          | 8   |                                 |  |                                   |   | 31  |                                 |                             |   |                               |   |                          | 48        |
| Imports - Importations - Importaciones  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |           |
| Exports - Exportations - Exportaciones  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |           |
| Stock - Stocks - Inventario (+/-)   |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |           |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>5</b>                     | <b>3</b>                   | <b>8</b>  |                                 |  |                                   |   | <b>31</b>   |                                 |                             |   |                               |   |                          | <b>48</b> |
| Differences - Ecarts - Diferencias  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |           |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |   |                                 |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                                 |                             |   |                               |   |                          |           |
| Electricity - Électricité - Electrica   | - 5                          | - 3                        | - 8   |                                 |  |                                   |   | - 27  |                                 |                             |   |                               | 16                                      |                          |           |
| CHP - Cogénération - Cogeneración   |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               | 12                                      |                          |           |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               | - 0                                     |                          |           |
| Charcoal - Charbon - Carbón   |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               | - 1                                     |                          |           |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |           |
| Other - Autres - Otras  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |           |
| Own use - Consomm. propre - Uso propio  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |           |
| Distribution - Distribution - Distribución  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |           |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |   |                                 |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                                 |                             |   |                               |   |                          |           |
| Total - Total - Total   |                              |                            |   |                                 |  |                                   |   | 4   |                                 |                             |   |                               | 12                                      | 16                       | 32        |
| Industry - Industrie - Industria  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               | 1                                       |                          |           |
| Transport - Transport - Transporte  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |           |
| Commerce - Commerce - Comercial   |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |           |
| Residential - Résidentiel - Residencial   |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |           |
| Other - Autres - Otros  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |           |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |   |                                 |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                                 |                             |   |                               |   |                          |           |
| Total - Total - Total   | 4                            | 3                          | 8   |                                 |  |                                   |   | 4   |                                 |                             |   |                               | 12                                      |                          | 32        |
| Electricity - Électricité - Electrica   | 4                            | 3                          | 8   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          | 16        |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |           |
| Direct use - Utilisation directe - Uso directo  |                              |                            |   |                                 |  |                                   |   | 4   |                                 |                             |   |                               | 12                                      |                          | 17        |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |   |                                 |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                                 |                             |   |                               |   |                          |           |
| Electricity - Électricité - Electrica (in/en GWh)   | 1                            | 1                          | 2   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          | 4         |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |           |
| 2021 (In/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                               |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios   |                                 |                             | Pellets/briq.<br>Granules/briq.<br>Pellets/briq.      | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total     |
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás |   |                               |   |                          |           |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaaria |                                 |  |                                   |   |   |                                 |                             | Primary energy - Énergie primaire - Energía primaaria |                               |   |                          |           |
| Production - Production - Generación  | 5                            | 3                          | 8   |                                 |  |                                   |   | 31  |                                 |                             |   |                               |   |                          | 47        |
| Imports - Importations - Importaciones  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |           |
| Exports - Exportations - Exportaciones  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |           |
| Stock - Stocks - Inventario (+/-)   |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |           |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>5</b>                     | <b>3</b>                   | <b>8</b>  |                                 |  |                                   |   | <b>31</b>   |                                 |                             |   |                               |   |                          | <b>47</b> |
| Differences - Ecarts - Diferencias  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |           |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |   |                                 |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                                 |                             |   |                               |   |                          |           |
| Electricity - Électricité - Electrica   | - 5                          | - 3                        | - 8   |                                 |  |                                   |   | - 27  |                                 |                             |   |                               | 16                                      |                          |           |
| CHP - Cogénération - Cogeneración   |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               | 12                                      |                          |           |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               | - 0                                     |                          |           |
| Charcoal - Charbon - Carbón   |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               | - 1                                     |                          |           |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |           |
| Other - Autres - Otras  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |           |
| Own use - Consomm. propre - Uso propio  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |           |
| Distribution - Distribution - Distribución  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |           |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |   |                                 |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                                 |                             |   |                               |   |                          |           |
| Total - Total - Total   |                              |                            |   |                                 |  |                                   |   | 4   |                                 |                             |   |                               | 12                                      | 15                       | 32        |
| Industry - Industrie - Industria  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               | 1                                       |                          |           |
| Transport - Transport - Transporte  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |           |
| Commerce - Commerce - Comercial   |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               | 2                                       | 2                        | 5         |
| Residential - Résidentiel - Residencial   |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               | 10                                      | 12                       | 26        |
| Other - Autres - Otros  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |           |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |   |                                 |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                                 |                             |   |                               |   |                          |           |
| Total - Total - Total   | 4                            | 3                          | 8   |                                 |  |                                   |   | 4   |                                 |                             |   |                               | 12                                      |                          | 32        |
| Electricity - Électricité - Electrica   | 4                            | 3                          | 8   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          | 15        |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |           |
| Direct use - Utilisation directe - Uso directo  |                              |                            |   |                                 |  |                                   |   | 4   |                                 |                             |   |                               | 12                                      |                          | 17        |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |   |                                 |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                                 |                             |   |                               |   |                          |           |
| Electricity - Électricité - Electrica (in/en GWh)   | 1                            | 1                          | 2   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          | 4         |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |           |

## Micronesia (Federated States of)

## Mongolia

| 2022 (In/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                              |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primariares -<br>Biocombustibles primarios                                       |                             |  | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total          |       |
|---|------------------------------|----------------------------|--|---------------------------------|-------------------------------|--|-----------------------------------|---|---|-----------------------------|--|--|-------------------------------|---|--------------------------|----------------|-------|
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica       | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás |  |  |                               |   |                          |                |       |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaria |                                 |                               |  |                                   |   | Primary energy - Énergie primaire - Energía primaria  |                             |  |  |                               |   |                          |                |       |
| Production - Production - Generación  | 229 o                        | 1834 o                     | 671 o  |                                 |                               |  |                                   |   | 8 328 e   | 1                           |  |  | 0                             | 369                                     |                          | 11 063         |       |
| Imports - Importations - Importaciones  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  | - 4                           | - 4                                     |                          | 370            |       |
| Exports - Exportations - Exportaciones  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  | - 4                           | - 4                                     |                          | - 8            |       |
| Stock - Stocks - Inventario (+/-)   | 229                          | 1834                       | 671  |                                 |                               |  |                                   |   | 8 329   |                             |  |  | - 4                           | 365                                     |                          | 11 425         |       |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>229</b>                   | <b>1834</b>                | <b>671</b>   |                                 |                               |  |                                   |   |   |                             |  |  |                               | <b>- 0</b>                              |                          | <b>- 7 112</b> |       |
| Differences - Ecarts - Diferencias  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |                |       |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |                                 |                               |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                             |  |  |                               |   |                          |                |       |
| Electricity - Électricité - Electrica   | - 229 o                      | - 1834 o                   | - 671 o  |                                 |                               |  |                                   |   | - 1 218 e   |                             |  |  |                               |   | 2 735                    |                |       |
| CHP - Cogénération - Cogeneración   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |                |       |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |                |       |
| Charcoal - Charbon - Carbón   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |                |       |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |                |       |
| Other - Autres - Otras  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |                |       |
| Own use - Consomm. propre - Uso propio  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |                |       |
| Distribution - Distribution - Distribución  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |                |       |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |                                 |                               |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                             |  |  |                               |   |                          |                |       |
| Total - Total - Total   |                              |                            |  |                                 |                               |  |                                   |   | e   |                             |  |  | 548                           | 1 418                                   |                          | 1 965          |       |
| Industry - Industrie - Industria  |                              |                            |  |                                 |                               |  |                                   |   | e   |                             |  |  |                               | 880                                     |                          | 880            |       |
| Transport - Transport - Transporte  |                              |                            |  |                                 |                               |  |                                   |   | e   |                             |  |  |                               | 59                                      |                          | 59             |       |
| Commerce - Commerce - Comercial   |                              |                            |  |                                 |                               |  |                                   |   | e   |                             |  |  |                               |   |                          |                |       |
| Residential - Résidentiel - Residencial   |                              |                            |  |                                 |                               |  |                                   |   | e   |                             |  |  | 548                           | 340                                     |                          | 887            |       |
| Other - Autres - Otros  |                              |                            |  |                                 |                               |  |                                   |   | e   |                             |  |  |                               | 139                                     |                          | 139            |       |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |                                 |                               |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                             |  |  |                               |   |                          |                |       |
| Total - Total - Total   | 119                          | 951                        | 348  |                                 |                               |  |                                   |   |   |                             |  |  | 548                           |   |                          | 1 965          |       |
| Electricity - Électricité - Electrica   | 119                          | 951                        | 348  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          | 1 418          |       |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  | 548                           |   |                          | 548            |       |
| Direct use - Utilisation directe - Uso directo  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |                |       |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |                                 |                               |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                             |  |  |                               |   |                          |                |       |
| Electricity - Électricité - Electrica (in/en GWh)   | 64                           | 510                        | 186  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |                | 760   |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |                |       |
| 2021 (In/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                              |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primariares -<br>Biocombustibles primarios                                       |                             |  | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total          |       |
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica       | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás |  |  |                               |   |                          |                |       |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaria |                                 |                               |  |                                   |   | Primary energy - Énergie primaire - Energía primaria  |                             |  |  |                               |   |                          |                |       |
| Production - Production - Generación  | 306 o                        | 2 030 o                    | 593 o  |                                 |                               |  |                                   |   | 6 003 e   |                             |  |  |                               |   |                          |                | 8 933 |
| Imports - Importations - Importaciones  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          | 355            |       |
| Exports - Exportations - Exportaciones  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          | - 5            |       |
| Stock - Stocks - Inventario (+/-)   | 306                          | 2 030                      | 593  |                                 |                               |  |                                   |   | 6 003   | 0                           |  |  |                               |   |                          | 9 283          |       |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>306</b>                   | <b>2 030</b>               | <b>593</b>   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          | <b>- 0</b>     |       |
| Differences - Ecarts - Diferencias  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |                |       |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |                                 |                               |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                             |  |  |                               |   |                          |                |       |
| Electricity - Électricité - Electrica   | - 306 o                      | - 2 030 o                  | - 593 o  |                                 |                               |  |                                   |   | - 2 887 e   |                             |  |  |                               |   | 2 930                    |                |       |
| CHP - Cogénération - Cogeneración   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |                |       |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |                |       |
| Charcoal - Charbon - Carbón   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |                |       |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |                |       |
| Other - Autres - Otras  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |                |       |
| Own use - Consomm. propre - Uso propio  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |                |       |
| Distribution - Distribution - Distribución  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |                |       |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |                                 |                               |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                             |  |  |                               |   |                          |                |       |
| Total - Total - Total   |                              |                            |  |                                 |                               |  |                                   |   | 3 116   |                             |  |  | 722                           | 1 521                                   |                          | 5 359          |       |
| Industry - Industrie - Industria  |                              |                            |  |                                 |                               |  |                                   |   | 1 972 e   |                             |  |  | 722 e                         | 918                                     |                          | 918            |       |
| Transport - Transport - Transporte  |                              |                            |  |                                 |                               |  |                                   |   | 1144 e  |                             |  |  |                               | 63                                      |                          | 63             |       |
| Commerce - Commerce - Comercial   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               | 164                                     |                          | 164            |       |
| Residential - Résidentiel - Residencial   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               | 361                                     |                          | 3 054          |       |
| Other - Autres - Otros  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               | 16                                      |                          | 1160           |       |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |                                 |                               |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                             |  |  |                               |   |                          |                |       |
| Total - Total - Total   | 159                          | 1 054                      | 308  |                                 |                               |  |                                   |   | 3 116   |                             |  |  | 722                           |   |                          | 5 359          |       |
| Electricity - Électricité - Electrica   | 159                          | 1 054                      | 308  |                                 |                               |  |                                   |   |   |                             |  |  | 722                           |   |                          | 1 521          |       |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |                |       |
| Direct use - Utilisation directe - Uso directo  |                              |                            |  |                                 |                               |  |                                   |   | 3 116   |                             |  |  | 722                           |   |                          | 3 838          |       |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |                                 |                               |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                             |  |  |                               |   |                          |                |       |
| Electricity - Électricité - Electrica (in/en GWh)   | 85                           | 564                        | 165  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |                | 814   |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |                |       |

## Montenegro

## Montenegro

| 2022 (In/en TJ)   | Hydro/Marine<br>Hydro/Marina                                | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                        |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primariares -<br>Biocombustibles primarios |                                 |                             | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total           |
|---|---|----------------------------|--|---------------------------------|--|-----------------------------------|---|---|---------------------------------|-----------------------------|--|-------------------------------|---|--------------------------|-----------------|
|   |   |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás |  |                               |   |                          |                 |
|   | <b>Primary energy - Énergie primaire - Energía primaria</b> |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |                 |
| Production - Production - Generación  | 5 199   | 1169                       | 10   | 10                              |  |                                   |   | 7 261   |                                 |                             | 5  | 9                             | 10 275                                  |                          | 13 649          |
| Imports - Importations - Importaciones  |   |                            |  |                                 |  |                                   |   |   |                                 | - 1075                      |  | - 10 533                      |   | 10 289                   |                 |
| Exports - Exportations - Exportaciones  |   |                            |  |                                 |  |                                   |   |   |                                 | - 1070                      | 9  | - 258                         |   | - 11 608                 |                 |
| Stock - Stocks - Inventario (+/-)   | <b>5 199</b>  | <b>1169</b>                | <b>10</b>                                      | <b>10</b>                       |  |                                   |   | <b>7 261</b>  |                                 |                             |  |                               |   |                          | <b>12 330</b>   |
| <b>Supply - Approvisionnement - Oferta</b>  |   |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |                 |
| Differences - écarts - Diferencias  |   |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |                 |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |   |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |                 |
| Electricity - Électricité - Electrica   | - 5 199   | - 1169                     | - 10   |                                 |  |                                   |   |   |                                 | - 35                        |  |                               | 6 378                                   |                          | - 0             |
| CHP - Cogénération - Cogeneración   |   |                            |  |                                 |  |                                   |   |   |                                 | - 1417                      |  |                               |   |                          | - 0             |
| Heat - Chaleur - Calor  |   |                            |  |                                 |  |                                   |   |   |                                 |                             | 1 417  | 35                            |   |                          |                 |
| Charcoal - Charbon - Carbón   |   |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               | - 204                                   |                          |                 |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |   |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               | - 916                                   |                          | - 204           |
| Other - Autres - Otras  |   |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          | - 916           |
| Own use - Consomm. propre - Uso propio  |   |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |                 |
| Distribution - Distribution - Distribución  |   |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |                 |
| <b>Final consumption - Consommation finale - Consumo final</b>  |   |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |                 |
| Total - Total - Total   |   |                            |  | 10                              |  |                                   |   |   |                                 | 5 809                       |  | 347                           | 44                                      | 5 000                    | 11 209          |
| Industry - Industrie - Industria  |   |                            |  |                                 |  |                                   |   |   |                                 | 480                         | 9  | 380                           |   | 868                      |                 |
| Transport - Transport - Transporte  |   |                            |  | 10                              |  |                                   |   |   |                                 |                             |  | 24                            |   | 24                       |                 |
| Commerce - Commerce - Comercial   |   |                            |  |                                 |  |                                   |   |   |                                 | 303                         | 89   | 1931                          |   | 2 356                    |                 |
| Residential - Résidentiel - Residencial   |   |                            |  |                                 |  |                                   |   |   |                                 | 5 003                       | 249  | 20                            | 2 636                                   |                          | 7 909           |
| Other - Autres - Otros  |   |                            |  |                                 |  |                                   |   |   |                                 | 24                          |  |                               | 29                                      |                          | 52              |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |   |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |                 |
| Total - Total - Total   | 4 075   | 916                        | 8  | 10                              |  |                                   |   |   |                                 | 5 809                       |  | 347                           | 44                                      |                          | 11 209          |
| Electricity - Électricité - Electrica   | 4 075   | 916                        | 8  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          | 5 000           |
| Heat - Chaleur - Calor  |   |                            |  | 10                              |  |                                   |   |   |                                 | 5 809                       |  | 347                           | 44                                      |                          | 6 210           |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |   |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |                 |
| Electricity - Électricité - Electrica (in/en GWh)   | 1 444   | 325                        | 3  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          | 1 772           |
| Heat - Chaleur - Calor (in/en TJ)   |   |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |                 |
| 2021 (In/en TJ)   | Hydro/Marine<br>Hydro/Marina                                | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                        |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primariares -<br>Biocombustibles primarios |                                 |                             | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total           |
|   |   |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás |  |                               |   |                          |                 |
|   | <b>Primary energy - Énergie primaire - Energía primaria</b> |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |                 |
| Production - Production - Generación  | 7 236   | 1152                       | 9  | 9                               |  |                                   |   | 7 425   |                                 |                             | 28   | 9                             | 11 825                                  |                          | 15 831          |
| Imports - Importations - Importaciones  |   |                            |  |                                 |  |                                   |   |   |                                 | - 905                       |  | - 12 205                      |   | 11 862                   |                 |
| Exports - Exportations - Exportaciones  |   |                            | <b>7 236</b>                                   | <b>1152</b>                     | <b>9</b>                                 | <b>9</b>                          |   | <b>7 425</b>  |                                 |                             | <b>- 877</b>                                     | <b>9</b>                      | <b>- 380</b>                            |                          | <b>- 13 110</b> |
| Stock - Stocks - Inventario (+/-)   |   |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |                 |
| <b>Supply - Approvisionnement - Oferta</b>  |   |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          | <b>14 583</b>   |
| Differences - écarts - Diferencias  |   |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |                 |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |   |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |                 |
| Electricity - Électricité - Electrica   | - 7 236   | - 1152                     | - 9  |                                 |  |                                   |   |   |                                 | - 32                        |  |                               | 8 398                                   |                          | - 0             |
| CHP - Cogénération - Cogeneración   |   |                            |  |                                 |  |                                   |   |   |                                 | - 1 237                     |  |                               |   |                          | - 0             |
| Heat - Chaleur - Calor  |   |                            |  |                                 |  |                                   |   |   |                                 |                             | 1 237  | 32                            |   |                          |                 |
| Charcoal - Charbon - Carbón   |   |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               | - 276                                   |                          |                 |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |   |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               | - 1120                                  |                          | - 1120          |
| <b>Final consumption - Consommation finale - Consumo final</b>  |   |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |                 |
| Total - Total - Total   |   |                            |  | 9                               |  |                                   |   |   |                                 | 6 156                       |  | 360                           | 41                                      | 6 621                    | 13 187          |
| Industry - Industrie - Industria  |   |                            |  |                                 |  |                                   |   |   |                                 | 392                         | 8  | 1508                          |   | 1 908                    |                 |
| Transport - Transport - Transporte  |   |                            |  |                                 |  |                                   |   |   |                                 | 242                         | 72   | 19                            | 2 084                                   |                          | 24              |
| Commerce - Commerce - Comercial   |   |                            |  |                                 |  |                                   |   |   |                                 | 5 498                       | 280  | 22                            | 2 971                                   |                          | 2 426           |
| Residential - Résidentiel - Residencial   |   |                            |  |                                 |  |                                   |   |   |                                 | 24                          |  |                               | 33                                      |                          | 8 771           |
| Other - Autres - Otros  |   |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          | 57              |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |   |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |                 |
| Total - Total - Total   | 5 705   | 909                        | 7  | 9                               |  |                                   |   |   |                                 | 6 156                       |  | 360                           | 41                                      |                          | 13 187          |
| Electricity - Électricité - Electrica   | 5 705   | 909                        | 7  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          | 6 621           |
| Heat - Chaleur - Calor  |   |                            |  | 9                               |  |                                   |   |   |                                 | 6 156                       |  | 360                           | 41                                      |                          | 6 566           |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |   |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |                 |
| Electricity - Électricité - Electrica (in/en GWh)   | 2 010   | 320                        | 3  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          | 2 333           |
| Heat - Chaleur - Calor (in/en TJ)   |   |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |                 |

## Morocco

## Morocco

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                        |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                                 | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Electricidad | Heat<br>Chaleur<br>Calor | Total         |               |
|---|------------------------------|----------------------------|--|---------------------------------|--|-----------------------------------|---|---|---------------------------------|--|-------------------------------|--|--------------------------|---------------|---------------|
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás                      |                               |  |                          |               |               |
| <b>Primary energy - Énergie primaire - Energía primaria</b>   |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |  |                          |               |               |
| Production - Production - Generación  | 1 261                        | 19 336                     | 2 203  | 12 563                          |  |                                   |   | 49 983  |                                 | 433  |                               |  | 1 223                    |               |               |
| Imports - Importations - Importaciones  |                              |                            |  |                                 |  |                                   |   |   |                                 |  | - 308                         |  | - 308                    |               |               |
| Exports - Exportations - Exportaciones  |                              |                            |  |                                 |  |                                   |   | 49 983  |                                 | 433  |                               |  | 914                      |               |               |
| Stock - Stocks - Inventario (+/-)   |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |  |                          | 86 692        |               |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>1 261</b>                 | <b>19 336</b>              | <b>2 203</b>                                   | <b>12 563</b>                   |  |                                   |   |   |                                 |  |                               |  |                          |               |               |
| Differences - écarts - Diferencias  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |  |                          |               |               |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |  |                          |               |               |
| Electricity - Électricité - Electrica   | - 1 261                      | - 19 336                   | - 2 203  | - 9 421                         |  |                                   |   |   |                                 | - 433  |                               |  | 25 424                   |               |               |
| CHP - Cogénération - Cogeneración   |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |  |                          | - 7 229       |               |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |  |                                   |   |   |                                 |  | 654                           |  |                          | - 1 527       |               |
| Charcoal - Charbon - Carbón   |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |  |                          |               |               |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |  |                          |               |               |
| Other - Autres - Otras  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |  |                          |               |               |
| Own use - Consomm. propre - Uso propio  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |  |                          |               |               |
| Distribution - Distribution - Distribución  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |  |                          |               |               |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |  |                          |               |               |
| <b>Total - Total - Total</b>  |                              |                            |  | <b>3 142</b>                    |  |                                   |   | <b>47 802</b>   |                                 |  | <b>654</b>                    | <b>22 754</b>                              | <b>74 352</b>            |               |               |
| Industry - Industrie - Industria  |                              |                            |  |                                 |  |                                   |   | 1 482   |                                 |  |                               | 7 898                                      |                          | <b>9 380</b>  |               |
| Transport - Transport - Transporte  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               | 194  |                          | <b>194</b>    |               |
| Commerce - Commerce - Comercial   |                              |                            |  | 785                             |  |                                   |   | 27 767  |                                 |  |                               | 74   | 3 992                    | <b>32 619</b> |               |
| Residential - Résidentiel - Residencial   |                              |                            |  | 2 356                           |  |                                   |   | 18 553  |                                 |  |                               | 580  | 8 261                    | <b>29 751</b> |               |
| Other - Autres - Otros  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |  | 2 409                    |               | <b>2 409</b>  |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |  |                          |               |               |
| <b>Total - Total - Total</b>  | <b>1 101</b>                 | <b>16 888</b>              | <b>1 924</b>                                   | <b>5 857</b>                    |  |                                   |   | <b>47 802</b>   |                                 | <b>126</b>                                       | <b>654</b>                    |  |                          | <b>74 352</b> |               |
| Electricity - Électricité - Electrica   | 1 101                        | 16 888                     | 1 924  | 2 715                           |  |                                   |   |   |                                 |  |                               |  |                          |               | <b>22 754</b> |
| Heat - Chaleur - Calor  |                              |                            |  | <b>3 142</b>                    |  |                                   |   | 47 802  |                                 |  |                               |  |                          |               | <b>51 598</b> |
| Direct use - Utilisation directe - Uso directo  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |  |                          |               |               |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |  |                          |               |               |
| Electricity - Électricité - Electrica (in/en GWh)   | 350                          | 5 371                      | 612  | 864                             |  |                                   |   |   |                                 |  | 40                            |  |                          |               | <b>7 237</b>  |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |  |                          |               |               |

| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                        |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                                 | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Electricidad | Heat<br>Chaleur<br>Calor | Total         |               |
|---|------------------------------|----------------------------|--|---------------------------------|--|-----------------------------------|---|---|---------------------------------|--|-------------------------------|--|--------------------------|---------------|---------------|
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás                      |                               |  |                          |               |               |
| <b>Primary energy - Énergie primaire - Energía primaria</b>   |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |  |                          |               |               |
| Production - Production - Generación  | 2 946                        | 18 439                     | 2 023  | 17 062                          |  |                                   |   | 50 108  |                                 | 433  |                               |  | 450                      |               |               |
| Imports - Importations - Importaciones  |                              |                            |  |                                 |  |                                   |   |   |                                 |  | - 557                         |  | - 557                    |               |               |
| Exports - Exportations - Exportaciones  |                              |                            |  |                                 |  |                                   |   | 50 108  |                                 | 433  |                               |  | - 107                    |               |               |
| Stock - Stocks - Inventario (+/-)   |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |  |                          | 90 904        |               |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>2 946</b>                 | <b>18 439</b>              | <b>2 023</b>                                   | <b>17 062</b>                   |  |                                   |   |   |                                 |  | <b>0</b>                      |  |                          |               |               |
| Differences - écarts - Diferencias  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |  |                          |               |               |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |  |                          |               |               |
| Electricity - Électricité - Electrica   | - 2 946                      | - 18 439                   | - 2 023  | - 14 027                        |  |                                   |   |   |                                 | - 433  |                               |  | 25 424                   |               |               |
| CHP - Cogénération - Cogeneración   |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |  |                          | - 12 443      |               |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |  |                                   |   |   |                                 |  | 640                           |  |                          | - 1 494       |               |
| Charcoal - Charbon - Carbón   |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |  |                          |               |               |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |  |                          |               |               |
| Other - Autres - Otras  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |  |                          |               |               |
| Own use - Consomm. propre - Uso propio  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |  |                          |               |               |
| Distribution - Distribution - Distribución  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |  |                          |               |               |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |  |                          |               |               |
| <b>Total - Total - Total</b>  |                              |                            |  | <b>3 035</b>                    |  |                                   |   | <b>47 974</b>   |                                 |  | <b>640</b>                    | <b>21 786</b>                              | <b>73 436</b>            |               |               |
| Industry - Industrie - Industria  |                              |                            |  |                                 |  |                                   |   | 1 489   |                                 |  |                               | 7 561                                      |                          | <b>9 050</b>  |               |
| Transport - Transport - Transporte  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               | 186  |                          | <b>186</b>    |               |
| Commerce - Commerce - Comercial   |                              |                            |  |                                 |  |                                   |   | 27 603  |                                 |  |                               | 71   | 3 822                    | <b>32 255</b> |               |
| Residential - Résidentiel - Residencial   |                              |                            |  |                                 |  |                                   |   | 18 882  |                                 |  |                               | 570  | 7 910                    | <b>29 639</b> |               |
| Other - Autres - Otros  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |  | 2 307                    |               | <b>2 307</b>  |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |  |                          |               |               |
| <b>Total - Total - Total</b>  | <b>2 277</b>                 | <b>14 255</b>              | <b>1 564</b>                                   | <b>6 614</b>                    |  |                                   |   | <b>47 974</b>   |                                 | <b>111</b>                                       | <b>640</b>                    |  |                          | <b>73 436</b> |               |
| Electricity - Électricité - Electrica   | 2 277                        | 14 255                     | 1 564  | 3 578                           |  |                                   |   |   |                                 | 111  |                               |  |                          |               | <b>21 786</b> |
| Heat - Chaleur - Calor  |                              |                            |  | <b>3 035</b>                    |  |                                   |   | 47 974  |                                 |  |                               | 640  |                          |               | <b>51 650</b> |
| Direct use - Utilisation directe - Uso directo  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |  |                          |               |               |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |  |                          |               |               |
| Electricity - Électricité - Electrica (in/en GWh)   | 818                          | 5 122                      | 562  | 1 286                           |  |                                   |   |   |                                 |  | 40                            |  |                          |               | <b>7 828</b>  |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |  |                          |               |               |

## Mozambique

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Eoliennes<br>Eólica | Solar - Solaire - Solar                               |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios   |                                 |                             | Pellets/briq.<br>Granules/briq.<br>Pellets/briq.      | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total        |                |
|---|------------------------------|-----------------------------|---|---------------------------------|--|-----------------------------------|---|---|---------------------------------|-----------------------------|---|-------------------------------|---|--------------------------|--------------|----------------|
|   |                              |                             | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás |   |                               |   |                          |              |                |
|   |                              |                             | Primary energy - Énergie primaire - Energía primaaria |                                 |  |                                   |   |   |                                 |                             | Primary energy - Énergie primaire - Energía primaaria |                               |   |                          |              |                |
| Production - Production - Generación  | 58 261                       |                             |   | 253                             |  |                                   |   |   |                                 | 196 568                     | 2   | 0                             |   | 1                        | 25 003       | 255 082        |
| Imports - Importations - Importaciones  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               | - 197                                   | - 34 661                 | 25 006       | - 34 858       |
| Exports - Exportations - Exportaciones  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |              |                |
| Stock - Stocks - Inventario (+/-)   | 58 261                       |                             |   | 253                             |  |                                   |   |   |                                 | 196 570                     |   | 0                             |   | - 196                    | - 9 658      | 245 231        |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>58 261</b>                |                             |   | <b>253</b>                      |  |                                   |   |   |                                 | <b>196 570</b>              |   | <b>0</b>                      |   | <b>- 828</b>             | <b>- 380</b> | <b>245 231</b> |
| Differences - Ecarts - Diferencias  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |              | - 1 208        |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                             |   |                                 |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                                 |                             |   |                               |   |                          |              |                |
| Electricity - Électricité - Electrica   | - 58 261                     |                             |   | - 253                           |  |                                   |   |   |                                 | - 571                       |   | - 0                           |   |                          | 58 514       | - 336          |
| CHP - Cogénération - Cogeneración   |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          | 236          | - 9 794        |
| Heat - Chaleur - Calor  |                              |                             |   |                                 |  |                                   |   |   |                                 | - 17 895                    |   |                               |   |                          |              |                |
| Charcoal - Charbon - Carbón   |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |              |                |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |              |                |
| Other - Autres - Otras  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |              |                |
| Own use - Consomm. propre - Uso propio  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |              |                |
| Distribution - Distribution - Distribución  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |              |                |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                             |   |                                 |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                                 |                             |   |                               |   |                          |              |                |
| Total - Total - Total   |                              |                             |   |                                 |  |                                   |   | 178 104   | 6 346                           |                             |   |                               | 7 076                                   | 40 018                   | 225 198      |                |
| Industry - Industrie - Industria  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   | 33 475                   | 39 821       |                |
| Transport - Transport - Transporte  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |              |                |
| Commerce - Commerce - Comercial   |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |              |                |
| Residential - Résidentiel - Residencial   |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |              |                |
| Other - Autres - Otros  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |              |                |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                             |   |                                 |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                                 |                             |   |                               |   |                          |              |                |
| Total - Total - Total   | 39 685                       |                             |   | 173                             |  |                                   |   | 178 264   | 160                             |                             |   |                               | 7 076                                   |                          | 225 198      |                |
| Electricity - Électricité - Electrica   | 39 685                       |                             |   | 173                             |  |                                   |   |   |                                 |                             |   |                               |   | 40 018                   |              |                |
| Heat - Chaleur - Calor  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |              |                |
| Direct use - Utilisation directe - Uso directo  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |              | 185 180        |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                             |   |                                 |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                                 |                             |   |                               |   |                          |              |                |
| Electricity - Électricité - Electrica (in/en GWh)   | 16 184                       |                             |   | 70                              |  |                                   |   | 65  |                                 |                             |   |                               |   |                          |              | 16 319         |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |              |                |
| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Eoliennes<br>Eólica | Solar - Solaire - Solar                               |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios   |                                 |                             | Pellets/briq.<br>Granules/briq.<br>Pellets/briq.      | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total        |                |
|   |                              |                             | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás |   |                               |   |                          |              |                |
|   |                              |                             | Primary energy - Énergie primaire - Energía primaaria |                                 |  |                                   |   |   |                                 |                             | Primary energy - Énergie primaire - Energía primaaria |                               |   |                          |              |                |
| Production - Production - Generación  | 55 716                       |                             |   | 257                             |  |                                   |   |   |                                 | 196 568                     | 0   | 0                             |   | 1                        | 24 326       | 252 540        |
| Imports - Importations - Importaciones  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               | - 37                                    | - 33 481                 | 24 327       |                |
| Exports - Exportations - Exportaciones  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |              | - 33 518       |
| Stock - Stocks - Inventario (+/-)   | 55 716                       |                             |   | 257                             |  |                                   |   |   |                                 | 196 568                     |   | 0                             |   | - 36                     | - 9 155      | 243 349        |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>55 716</b>                |                             |   | <b>257</b>                      |  |                                   |   |   |                                 | <b>196 568</b>              |   | <b>0</b>                      |   | <b>824</b>               | <b>- 404</b> | <b>243 349</b> |
| Differences - Ecarts - Diferencias  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |              | - 1 228        |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                             |   |                                 |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                                 |                             |   |                               |   |                          |              |                |
| Electricity - Électricité - Electrica   | - 55 716                     |                             |   | - 257                           |  |                                   |   |   |                                 | - 571                       |   | - 0                           |   |                          | 55 972       | - 292          |
| CHP - Cogénération - Cogeneración   |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          | 280          | - 9 794        |
| Heat - Chaleur - Calor  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |              |                |
| Charcoal - Charbon - Carbón   |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |              |                |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |              |                |
| Other - Autres - Otras  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |              |                |
| Own use - Consomm. propre - Uso propio  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |              |                |
| Distribution - Distribution - Distribución  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |              |                |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                             |   |                                 |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                                 |                             |   |                               |   |                          |              |                |
| Total - Total - Total   |                              |                             |   |                                 |  |                                   |   | 178 102   | 6 346                           |                             |   |                               | 7 240                                   | 38 096                   | 223 438      |                |
| Industry - Industrie - Industria  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   | 32 090                   | 39 437       |                |
| Transport - Transport - Transporte  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |              |                |
| Commerce - Commerce - Comercial   |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |              |                |
| Residential - Résidentiel - Residencial   |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |              |                |
| Other - Autres - Otros  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |              |                |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                             |   |                                 |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                                 |                             |   |                               |   |                          |              |                |
| Total - Total - Total   | 37 733                       |                             |   | 174                             |  |                                   |   | 178 291   | 189                             |                             |   |                               | 7 240                                   |                          | 223 438      |                |
| Electricity - Électricité - Electrica   | 37 733                       |                             |   | 174                             |  |                                   |   |   |                                 |                             |   |                               |   | 32 090                   | 38 096       |                |
| Heat - Chaleur - Calor  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |              |                |
| Direct use - Utilisation directe - Uso directo  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |              | 185 342        |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                             |   |                                 |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                                 |                             |   |                               |   |                          |              |                |
| Electricity - Électricité - Electrica (in/en GWh)   | 15 477                       |                             |   | 71                              |  |                                   |   | 78  |                                 |                             |   |                               |   |                          |              | 15 626         |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |              |                |

## Namibia

## Namibia

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                               |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios   |                                 |                              | Pellets/briq.<br>Granules/briq.<br>Pellets/briq.      | Charcoal<br>Carbon<br>Carbon | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total         |               |
|---|------------------------------|----------------------------|---|---------------------------------|--|-----------------------------------|---|---|---------------------------------|------------------------------|---|------------------------------|---|--------------------------|---------------|---------------|
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Bioegas - Biogaz<br>- Biogás |   |                              |   |                          |               |               |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaaria |                                 |  |                                   |   |   |                                 |                              | Primary energy - Énergie primaire - Energía primaaria |                              |   |                          |               |               |
| Production - Production - Generación  | 3 787                        | 78                         | 1 625   | 131                             |  |                                   |   | 27 658  | 2                               |                              |   | 2                            | 8 954                                   |                          |               | 33 279        |
| Imports - Importations - Importaciones  |                              |                            |   |                                 | - 479                                    |                                   |   |   |                                 |                              |   | - 7 990                      | - 608                                   |                          | 8 958         |               |
| Exports - Exportations - Exportaciones  |                              |                            |   |                                 |  |                                   |   |   |                                 |                              |   | - 7 989                      | 8 345                                   |                          | - 9 078       |               |
| Stock - Stocks - Inventario (+/-)   |                              |                            |   |                                 |  |                                   |   |   |                                 |                              |   |                              |   | 33 159                   |               |               |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>3 787</b>                 | <b>78</b>                  | <b>1 625</b>  | <b>131</b>                      |  |                                   |   | <b>27 181</b>   |                                 |                              |   |                              | <b>8 345</b>                            |                          |               | <b>33 159</b> |
| Differences - Ecarts - Diferencias  |                              |                            |   |                                 |  |                                   |   |   |                                 |                              |   |                              | - 8 656                                 |                          |               | - 8 656       |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |   |                                 |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                                 |                              |   |                              |   |                          |               |               |
| Electricity - Électricité - Electrica   | - 3 787                      | - 78                       | - 1 625   |                                 |  |                                   |   | - 2   |                                 |                              |   |                              | 5 491                                   |                          |               | - 2           |
| CHP - Cogénération - Cogeneración   |                              |                            |   |                                 |  |                                   |   | - 22 321  |                                 |                              |   |                              | 10 104                                  |                          |               | - 12 217      |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |  |                                   |   |   |                                 |                              |   |                              |   |                          |               |               |
| Charcoal - Charbon - Carbón   |                              |                            |   |                                 |  |                                   |   |   |                                 |                              |   |                              |   |                          |               |               |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |   |                                 |  |                                   |   |   |                                 |                              |   |                              |   |                          |               |               |
| Other - Autres - Otras  |                              |                            |   |                                 |  |                                   |   |   |                                 |                              |   |                              |   |                          |               |               |
| Own use - Consomm. propre - Uso propio  |                              |                            |   |                                 |  |                                   |   |   |                                 |                              |   |                              |   |                          |               |               |
| Distribution - Distribution - Distribución  |                              |                            |   |                                 |  |                                   |   |   |                                 |                              |   |                              | - 1 331                                 |                          |               | - 1 331       |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |   |                                 |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                                 |                              |   |                              |   |                          |               |               |
| Total - Total - Total   |                              |                            |   | 131                             |  |                                   |   | 4 858   |                                 |                              |   | 2 116                        | 3 850                                   |                          | 10 954        |               |
| Industry - Industrie - Industria  |                              |                            |   | 65                              |  |                                   |   | 729   |                                 |                              |   | 2 116                        | 1 581                                   |                          | 1 581         |               |
| Transport - Transport - Transporte  |                              |                            |   | 65                              |  |                                   |   | 4 129   |                                 |                              |   |                              |   |                          |               |               |
| Commerce - Commerce - Comercial   |                              |                            |   |                                 |  |                                   |   |   |                                 |                              |   |                              |   |                          | 1 446         |               |
| Residential - Résidentiel - Residencial   |                              |                            |   |                                 |  |                                   |   |   |                                 |                              |   | 2 116                        | 652                                     |                          | 7 928         |               |
| Other - Autres - Otros  |                              |                            |   |                                 |  |                                   |   |   |                                 |                              |   |                              | 1 618                                   |                          |               |               |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |   |                                 |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                                 |                              |   |                              |   |                          |               |               |
| <b>Total - Total - Total</b>  | <b>2 656</b>                 | <b>55</b>                  | <b>1 140</b>  | <b>131</b>                      |  |                                   |   | <b>4 859</b>  |                                 |                              |   | <b>2 116</b>                 | <b>3 850</b>                            |                          | <b>10 954</b> |               |
| Electricity - Électricité - Electrica   | 2 656                        | 55                         | 1 140   | 131                             |  |                                   |   | 1   |                                 |                              |   |                              |   |                          |               | <b>3 850</b>  |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |  |                                   |   | 4 858   |                                 |                              |   | 2 116                        |   |                          |               | <b>7 104</b>  |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |   |                                 |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                                 |                              |   |                              |   |                          |               |               |
| Electricity - Électricité - Electrica (in/en GWh)   | 1 052                        | 22                         | 452   |                                 |  |                                   |   | 0   |                                 |                              |   |                              |   |                          |               | 1 525         |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |   |                                 |  |                                   |   |   |                                 |                              |   |                              |   |                          |               |               |
| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                               |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios   |                                 |                              | Pellets/briq.<br>Granules/briq.<br>Pellets/briq.      | Charcoal<br>Carbon<br>Carbon | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total         |               |
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Bioegas - Biogaz<br>- Biogás |   |                              |   |                          |               |               |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaaria |                                 |  |                                   |   |   |                                 |                              | Primary energy - Énergie primaire - Energía primaaria |                              |   |                          |               |               |
| Production - Production - Generación  | 3 150                        | 78                         | 1 508   | 131                             |  |                                   |   | 24 220  | 13                              |                              |   | 1                            | 9 369                                   |                          |               | 29 086        |
| Imports - Importations - Importaciones  |                              |                            |   |                                 | - 177                                    |                                   |   |   |                                 |                              |   | - 6 459                      | - 899                                   |                          |               | 9 383         |
| Exports - Exportations - Exportaciones  |                              |                            |   |                                 |  |                                   |   |   |                                 |                              |   | - 6 457                      | 8 470                                   |                          |               | - 7 535       |
| Stock - Stocks - Inventario (+/-)   |                              |                            |   |                                 |  |                                   |   |   |                                 |                              |   |                              |   |                          |               |               |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>3 150</b>                 | <b>78</b>                  | <b>1 508</b>  | <b>131</b>                      |  |                                   |   | <b>24 055</b>   |                                 |                              |   |                              |   |                          |               | <b>30 934</b> |
| Differences - Ecarts - Diferencias  |                              |                            |   |                                 |  |                                   |   |   |                                 |                              |   |                              |   |                          |               | - 4 510       |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |   |                                 |  |                                   |   | - 2   |                                 |                              |   |                              | 4 736                                   |                          |               | - 2           |
| Electricity - Électricité - Electrica   | - 3 150                      | - 78                       | - 1 508   |                                 |  |                                   |   | - 18 879  |                                 |                              |   |                              | 8 546                                   |                          |               | - 10 333      |
| CHP - Cogénération - Cogeneración   |                              |                            |   |                                 |  |                                   |   |   |                                 |                              |   |                              |   |                          |               |               |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |  |                                   |   |   |                                 |                              |   |                              |   |                          |               |               |
| Charcoal - Charbon - Carbón   |                              |                            |   |                                 |  |                                   |   |   |                                 |                              |   |                              |   |                          |               |               |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |   |                                 |  |                                   |   |   |                                 |                              |   |                              |   |                          |               |               |
| Other - Autres - Otras  |                              |                            |   |                                 |  |                                   |   |   |                                 |                              |   |                              |   |                          |               |               |
| Own use - Consomm. propre - Uso propio  |                              |                            |   |                                 |  |                                   |   |   |                                 |                              |   |                              |   |                          |               |               |
| Distribution - Distribution - Distribución  |                              |                            |   |                                 |  |                                   |   |   |                                 |                              |   |                              | - 1 158                                 |                          |               | - 1 158       |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |   |                                 |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                                 |                              |   |                              |   |                          |               |               |
| Total - Total - Total   |                              |                            |   | 131                             |  |                                   |   | 5 173   |                                 |                              |   | 2 089                        | 7 538                                   |                          | 14 931        |               |
| Industry - Industrie - Industria  |                              |                            |   | 65                              |  |                                   |   | 776   |                                 |                              |   | 2 089                        | 3 084                                   |                          | 3 084         |               |
| Transport - Transport - Transporte  |                              |                            |   | 65                              |  |                                   |   | 4 397   |                                 |                              |   |                              | 1 283                                   |                          |               | 2 124         |
| Commerce - Commerce - Comercial   |                              |                            |   |                                 |  |                                   |   |   |                                 |                              |   | 2 089                        | 3 171                                   |                          |               | 9 723         |
| Residential - Résidentiel - Residencial   |                              |                            |   |                                 |  |                                   |   |   |                                 |                              |   |                              |   |                          |               |               |
| Other - Autres - Otros  |                              |                            |   |                                 |  |                                   |   |   |                                 |                              |   |                              |   |                          |               |               |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |   |                                 |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                                 |                              |   |                              |   |                          |               |               |
| <b>Total - Total - Total</b>  | <b>5 013</b>                 | <b>124</b>                 | <b>2 400</b>  | <b>131</b>                      |  |                                   |   | <b>5 175</b>  |                                 |                              |   | <b>2 089</b>                 | <b>7 538</b>                            |                          | <b>14 931</b> |               |
| Electricity - Électricité - Electrica   | 5 013                        | 124                        | 2 400   | 131                             |  |                                   |   | 1   |                                 |                              |   |                              |   |                          |               | <b>7 538</b>  |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |  |                                   |   | 5 173   |                                 |                              |   |                              | 2 089                                   |                          |               | <b>7 393</b>  |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |   |                                 |  |                                   |   | 0   |                                 |                              |   |                              |   |                          |               | <b>1 316</b>  |
| Electricity - Électricité - Electrica (in/en GWh)   | 875                          | 22                         | 419   |                                 |  |                                   |   |   |                                 |                              |   |                              |   |                          |               |               |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |   |                                 |  |                                   |   |   |                                 |                              |   |                              |   |                          |               |               |

## Nepal

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                              |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios   |                                 |                             | Pellets/briq.<br>Granules/briq.<br>Pellets/briq.     | Charcoal<br>Carbon<br>Carbon | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total  |  |  |
|---|------------------------------|----------------------------|--|---------------------------------|--|-----------------------------------|---|---|---------------------------------|-----------------------------|--|------------------------------|---|--------------------------|--|--|--|
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica       | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás |  |                              |   |                          |  |  |  |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaria |                                 |  |                                   |   |   |                                 |                             | Primary energy - Énergie primaire - Energía primaria |                              |   |                          |  |  |  |
| Production - Production - Generación  | 36 633                       | 1                          | 371  | 793                             |  |                                   |   | 130 248   | 1                               | 2 875                       | 1  | 130                          | 6 077<br>- 3 312                        |                          | 170 922<br>6 209<br>- 3 312                  |  |  |
| Imports - Importations - Importaciones  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |  |  |  |
| Exports - Exportations - Exportaciones  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |  |  |  |
| Stock - Stocks - Inventario (+/-)   |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |  |  |  |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>36 633</b>                | <b>1</b>                   | <b>371</b>   | <b>793</b>                      |  |                                   |   | <b>130 249</b>  |                                 | <b>2 875</b>                | <b>1</b>   | <b>130</b>                   | <b>2 765</b>                            |                          | <b>173 819</b>                               |  |  |
| <i>Differences - Ecarts - Diferencias</i>   |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |  |  |  |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |                                 |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                                 |                             |  |                              |   |                          |  |  |  |
| Electricity - Électricité - Electrica   | - 36 633                     | - 1                        | - 371  |                                 |  |                                   |   | - 68  |                                 | - 37                        |  | 34                           | 37 018<br>26                            |                          | - 25<br>- 42                                 |  |  |
| CHP - Cogénération - Cogeneración   |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |  |  |  |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |  |  |  |
| Charcoal - Charbon - Carbón   |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |  |  |  |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |  |  |  |
| Other - Autres - Otras  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |  |  |  |
| Own use - Consomm. propre - Uso propio  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |  |  |  |
| Distribution - Distribution - Distribución  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |  |  |  |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |                                 |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                                 |                             |  |                              |   |                          |  |  |  |
| <b>Total - Total - Total</b>  |                              |                            |  | 793                             |  |                                   |   | <b>123 701</b><br>604   |                                 | <b>2 839</b>                | <b>35</b>  | <b>3 048</b>                 | <b>33 681</b><br>12 669<br>20           |                          | <b>164 096</b><br><b>13 273</b><br><b>20</b> |  |  |
| Industry - Industrie - Industria  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |  |  |  |
| Transport - Transport - Transporte  |                              |                            |  | 476                             |  |                                   |   |   |                                 |                             |  |                              |   |                          |  |  |  |
| Commerce - Commerce - Comercial   |                              |                            |  | 317                             |  |                                   |   |   |                                 |                             |  |                              |   |                          |  |  |  |
| Residential - Résidentiel - Residencial   |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |  |  |  |
| Other - Autres - Otros  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |  |  |  |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |                                 |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                                 |                             |  |                              |   |                          |  |  |  |
| <b>Total - Total - Total</b>  | <b>33 307</b>                | <b>1</b>                   | <b>338</b>   | <b>793</b>                      |  |                                   |   | <b>123 725</b><br>24  |                                 | <b>2 850</b>                | <b>35</b>  | <b>3 048</b>                 |   |                          | <b>164 096</b><br><b>33 681</b>              |  |  |
| Electricity - Électricité - Electrica   | 33 307                       | 1                          | 338  |                                 |  |                                   |   | 123 701   |                                 | 2 839                       | 35   | 3 048                        |   |                          | 130 416                                      |  |  |
| Heat - Chaleur - Calor  |                              |                            |  | 793                             |  |                                   |   |   |                                 |                             |  |                              |   |                          |  |  |  |
| Direct use - Utilisation directe - Uso directo  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |  |  |  |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |                                 |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                                 |                             |  |                              |   |                          |  |  |  |
| Electricity - Électricité - Electrica (in/en GWh)   | 10 176                       | 0                          | 103  |                                 |  |                                   |   | 7   |                                 | 3                           |  |                              |   |                          | 10 290                                       |  |  |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |  |  |  |
| 2021 (In/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                              |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios   |                                 |                             | Pellets/briq.<br>Granules/briq.<br>Pellets/briq.     | Charcoal<br>Carbon<br>Carbon | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total  |  |  |
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica       | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás |  |                              |   |                          |  |  |  |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaria |                                 |  |                                   |   |   |                                 |                             | Primary energy - Énergie primaire - Energía primaria |                              |   |                          |  |  |  |
| Production - Production - Generación  | 28 504                       | 1                          | 310  | 692                             |  |                                   |   | 131 506   |                                 | 2 871                       | 1  | 35                           | 7 828<br>- 958                          |                          | 163 884<br>7 864<br>- 958                    |  |  |
| Imports - Importations - Importaciones  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |  |  |  |
| Exports - Exportations - Exportaciones  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |  |  |  |
| Stock - Stocks - Inventario (+/-)   |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |  |  |  |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>28 504</b>                | <b>1</b>                   | <b>310</b>   | <b>692</b>                      |  |                                   |   | <b>131 506</b>  |                                 | <b>2 871</b>                | <b>1</b>   | <b>35</b>                    | <b>6 871</b><br>- 2                     |                          | <b>170 790</b>                               |  |  |
| <i>Differences - Ecarts - Diferencias</i>   |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |  |  |  |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |                                 |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                                 |                             |  |                              |   |                          |  |  |  |
| Electricity - Électricité - Electrica   | - 28 504                     | - 1                        | - 310  |                                 |  |                                   |   | - 68  |                                 | - 33                        |  | 22                           | 28 827<br>26                            |                          | - 22<br>- 42                                 |  |  |
| CHP - Cogénération - Cogeneración   |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |  |  |  |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |  |  |  |
| Charcoal - Charbon - Carbón   |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |  |  |  |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |  |  |  |
| Other - Autres - Otras  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |  |  |  |
| Own use - Consomm. propre - Uso propio  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |  |  |  |
| Distribution - Distribution - Distribución  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |  |  |  |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |                                 |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                                 |                             |  |                              |   |                          |  |  |  |
| <b>Total - Total - Total</b>  |                              |                            |  | 692                             |  |                                   |   | <b>125 068</b><br>604   |                                 | <b>2 838</b>                | <b>23</b>  | <b>2 908</b>                 | <b>28 915</b><br>10 374<br>11           |                          | <b>160 444</b><br><b>10 978</b><br><b>11</b> |  |  |
| Industry - Industrie - Industria  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |  |  |  |
| Transport - Transport - Transporte  |                              |                            |  | 415                             |  |                                   |   |   |                                 |                             |  |                              |   |                          |  |  |  |
| Commerce - Commerce - Comercial   |                              |                            |  | 277                             |  |                                   |   |   |                                 |                             |  |                              |   |                          |  |  |  |
| Residential - Résidentiel - Residencial   |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |  |  |  |
| Other - Autres - Otros  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |  |  |  |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |                                 |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                                 |                             |  |                              |   |                          |  |  |  |
| <b>Total - Total - Total</b>  | <b>28 566</b>                | <b>1</b>                   | <b>311</b>   | <b>692</b>                      |  |                                   |   | <b>125 094</b><br>26  |                                 | <b>2 849</b>                | <b>23</b>  | <b>2 908</b>                 |   |                          | <b>160 444</b><br><b>28 915</b>              |  |  |
| Electricity - Électricité - Electrica   | 28 566                       | 1                          | 311  |                                 |  |                                   |   | 125 068   |                                 | 2 838                       | 23   | 2 908                        |   |                          | 131 529                                      |  |  |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |  |  |  |
| Direct use - Utilisation directe - Uso directo  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |  |  |  |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |                                 |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                                 |                             |  |                              |   |                          |  |  |  |
| Electricity - Électricité - Electrica (in/en GWh)   | 7 918                        | 0                          | 86   |                                 |  |                                   |   | 7   |                                 | 3                           |  |                              |   |                          | 8 015  |  |  |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |  |  |  |

## Netherlands

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                              |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios   |                             |                         | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Carbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor  | Total   |
|---|------------------------------|----------------------------|--|---------------------------------|-------------------------------|--|-----------------------------------|---|---|-----------------------------|-------------------------|--|------------------------------|---|---|---|
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica       | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás |                         |  |                              |   |   |   |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaria |                                 |                               |  |                                   |   | Primary energy - Énergie primaire - Energía primaria  |                             |                         |  |                              |   |   |   |
| Production - Production - Generación  | 180                          | 77 043                     | 61 484   | 1 168                           | 6 798                         | 20 500                                   | 32 696                            | 68 112<br>5 817<br>- 939                    | 73 332<br>18 448<br>- 30 140<br>- 15 998  | 18 138                      | 45 399<br>- 3 805       | 270  | 26 480<br>- 32 572           |   | 359 450<br>98 445<br>- 80 138<br>- 15 998<br>361 759<br>3 114   |   |
| Imports - Importations - Importaciones  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |                         |  |                              |   |   |   |
| Exports - Exportations - Exportaciones  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |                         |  |                              |   |   |   |
| Stock - Stocks - Inventario (+/-)   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |                         |  |                              |   |   |   |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>180</b>                   | <b>77 043</b>              | <b>61 484</b>  | <b>1 168</b>                    | <b>6 798</b>                  | <b>20 500</b>                            | <b>37 574</b>                     | <b>57 461</b><br>6 230<br>- 2 481           | <b>45 642</b><br>- 600  | <b>18 138</b><br>0          | <b>41 594</b><br>0      | <b>270</b>                                       | <b>- 6 092</b><br>- 36       |   | <b>359 450</b><br><b>98 445</b><br><b>- 80 138</b><br><b>- 15 998</b><br><b>361 759</b><br><b>3 114</b> |   |
| Differences - Ecarts - Diferencias  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |                         |  |                              |   |   |   |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |                                 |                               |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                             |                         |  |                              |   |   |   |
| Electricity - Électricité - Electrica   | - 180                        | - 77 043                   | - 61 484   |                                 |                               |  | - 35 925                          | - 5 943<br>- 20 758<br>- 5 441<br>- 4 825   |   | - 200<br>- 4 893<br>- 0     | - 9 571<br>- 33 430     |  | 145 538<br>28 397            | 18 122<br>4 750                         | - 8 882<br>- 48 487<br>- 691  |   |
| CHP - Cogénération - Cogeneración   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |                         |  |                              |   |   |   |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |                         |  |                              |   |   |   |
| Charcoal - Charbon - Carbón   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |                         |  |                              |   |   |   |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |                         |  |                              |   |   | - 0   |
| Other - Autres - Otras  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |                         |  |                              |   |   | - 3   |
| Own use - Consomm. propre - Uso propio  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |                         |  |                              |   |   | - 17 132  |
| Distribution - Distribución - Distribución  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |                         |  |                              |   |   | - 9 083   |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |                                 |                               |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                             |                         |  |                              |   |   |   |
| <b>Total - Total - Total</b>  |                              |                            |  | 1 168                           | 6 798                         | 20 500                                   | 1 649                             | <b>26 724</b><br>1 144                      | <b>43 161</b><br>2 477  | <b>12 445</b><br>1 804      | <b>3 418</b><br>1 100   | <b>270</b>                                       | <b>148 198</b><br>48 884     | <b>18 926</b><br>13 449                 | <b>283 256</b><br>68 858  |   |
| Industry - Industrie - Industria  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |                         |  |                              |   |   | <b>29 599</b>                                     |
| Transport - Transport - Transporte  |                              |                            |  | 234                             |                               |  |                                   |   |   | 23 121                      | 1 702                   |  |                              |   |   | <b>70 163</b>                                     |
| Commerce - Commerce - Comercial   |                              |                            |  | 934                             |                               |  |                                   |   |   | 317                         | 1 187                   |  |                              |   |   | <b>65 239</b>                                     |
| Residential - Résidentiel - Residencial   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |                         |  |                              |   |   |   |
| Other - Autres - Otras  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |                         |  |                              |   |   |   |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |                                 |                               |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                             |                         |  |                              |   |   |   |
| <b>Total - Total - Total</b>  | <b>168</b>                   | <b>71 804</b>              | <b>57 303</b>  | <b>1 168</b>                    | <b>6 798</b>                  | <b>20 500</b>                            | <b>18 524</b>                     | <b>24 297</b><br>7 461                      | <b>43 161</b><br>2 846  | <b>15 612</b><br>3 433      | <b>23 652</b><br>6 323  | <b>270</b>                                       |                              |   |   | <b>283 256</b><br><b>148 198</b><br><b>18 926</b> |
| Electricity - Électricité - Electrica   | 168                          | 71 804                     | 57 303   |                                 |                               |  |                                   |   |   |                             |                         |  |                              |   |   | <b>116 133</b>                                    |
| Heat - Chaleur - Calor  |                              |                            |  | 1 168                           | 6 798                         | 20 500                                   | 1 649                             | 26 724                                      | 43 161  | 12 445                      | 3 418                   | 270  |                              |   |   |   |
| Direct use - Utilisation directe - Uso directo  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |                         |  |                              |   |   |   |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |                                 |                               |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                             |                         |  |                              |   |   |   |
| Electricity - Electricité - Electrica (in/en GWh)   | 50                           | 21 401                     |  | 17 079                          |                               |  | 2 224                             | - 1571<br>2 578                             |   | 842                         | 4 146                   |  |                              |   |   | 44 169  |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |  |                                 |                               |  | 8 528                             |   | 311   | 5 728                       |                         |  |                              |   |   | 17 144  |
| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                              |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios   |                             |                         | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Carbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor  | Total   |
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica       | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás |                         |  |                              |   |   |   |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaria |                                 |                               |  |                                   |   | Primary energy - Énergie primaire - Energía primaria  |                             |                         |  |                              |   |   |   |
| Production - Production - Generación  | 318                          | 64 966                     | 40 694   | 1 164                           | 6 327                         | 16 201                                   | 36 132                            | 68 159<br>5 665<br>- 939                    | 76 425<br>11 440<br>- 14 088  | 18 169                      | 44 841<br>- 3 123       | 270  | 24 852<br>- 24 551           |   | 328 554<br>101 667<br>- 91 560  |   |
| Imports - Importations - Importaciones  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |                         |  |                              |   |   | <b>- 3 013</b>                                    |
| Exports - Exportations - Exportaciones  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |                         |  |                              |   |   | <b>335 648</b>                                    |
| Stock - Stocks - Inventario (+/-)   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |                         |  |                              |   |   | <b>- 4 523</b>                                    |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>318</b>                   | <b>64 966</b>              | <b>40 694</b>  | <b>1 164</b>                    | <b>6 327</b>                  | <b>16 201</b>                            | <b>40 858</b>                     | <b>68 670</b><br>4 904                      | <b>35 993</b><br>- 6 953  | <b>18 169</b><br>- 332      | <b>41 718</b><br>7 869  | <b>270</b>                                       | <b>301</b><br>12 183         |   | <b>246 002</b><br><b>64 895</b>   |   |
| Differences - Ecarts - Diferencias  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |                         |  |                              |   |   |   |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |                                 |                               |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                             |                         |  |                              |   |   |   |
| Electricity - Électricité - Electrica   | - 318                        | - 64 966                   | - 40 694   |                                 |                               |  | - 39 118                          | - 8 724<br>- 26 756<br>- 6 029<br>- 5 175   |   | - 156<br>- 48 300<br>- 0    | - 10 901<br>- 33 432    |  | 114 609<br>30 671            | 20 844<br>5 006                         | - 11 149<br>- 52 620<br>- 1023  |   |
| CHP - Cogénération - Cogeneración   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |                         |  |                              |   |   |   |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |                         |  |                              |   |   |   |
| Charcoal - Charbon - Carbón   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |                         |  |                              |   |   | - 0   |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |                         |  |                              |   |   |   |
| Other - Autres - Otras  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |                         |  |                              |   |   |   |
| Own use - Consomm. propre - Uso propio  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |                         |  |                              |   |   |   |
| Distribution - Distribución - Distribución  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |                         |  |                              |   |   |   |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |                                 |                               |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                             |                         |  |                              |   |   |   |
| <b>Total - Total - Total</b>  |                              |                            |  | 1 164                           | 6 327                         | 16 201                                   | 1 740                             | <b>26 890</b><br>3 186                      | <b>29 039</b><br>2 071  | <b>12 851</b><br>1 920      | <b>2 560</b><br>254     | <b>270</b>                                       | <b>127 030</b><br>42 075     | <b>21 929</b><br>15 390                 | <b>246 002</b><br>64 895  |   |
| Industry - Industrie - Industria  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |                         |  |                              |   |   | <b>29 789</b>                                     |
| Transport - Transport - Transporte  |                              |                            |  | 233                             |                               |  |                                   |   |   | 24 872                      | 1 708                   |  |                              |   |   | <b>59 651</b>                                     |
| Commerce - Commerce - Comercial   |                              |                            |  | 931                             |                               |  |                                   |   |   | 3 170                       | 368                     |  |                              |   |   | <b>55 409</b>                                     |
| Residential - Résidentiel - Residencial   |                              |                            |  |                                 |                               |  |                                   |   |   | 13 593                      | 1 354                   |  |                              |   |   | <b>36 258</b>                                     |
| Other - Autres - Otras  |                              |                            |  |                                 |                               |  |                                   |   |   | 6 941                       | 1 729                   |  |                              |   |   |   |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |                                 |                               |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                             |                         |  |                              |   |   |   |
| <b>Total - Total - Total</b>  | <b>311</b>                   | <b>63 678</b>              | <b>39 887</b>  | <b>1 164</b>                    | <b>6 327</b>                  | <b>16 201</b>                            | <b>19 490</b>                     | <b>28 022</b><br>7 791                      | <b>29 039</b><br>9 959  | <b>16 281</b><br>26 890     | <b>25 331</b><br>29 039 | <b>270</b>                                       |                              |   |   | <b>246 002</b><br><b>127 030</b><br><b>21 929</b> |
| Electricity - Électricité - Electrica   | 311                          | 63 678                     | 39 887   |                                 |                               |  |                                   | - 3 069                                     | 3 062   | 15 370                      |                         |  |                              |   |   | <b>97 042</b>                                     |
| Heat - Chaleur - Calor  |                              |                            |  | 1 164                           | 6 327                         | 16 201                                   | 1 740                             | 26 890                                      | 29 039  | 12 851                      | 2 560                   | 270  |                              |   |   |   |
| Direct use - Utilisation directe - Uso directo  |                              |                            |  |                                 |                               |  |                                   | 8 777                                       | 3 702   |                             |                         |  |                              |   |   |   |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |                                 |                               |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                             |                         |  |                              |   |   |   |
| Electricity - Electricité - Electrica (in/en GWh)   | 88                           | 18 046                     | 11 304   |                                 |                               |  |                                   | 2 208                                       | - 870   |                             | 868                     | 4 356  |                              |   |   | <b>36 000</b>                                     |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |  |                                 |                               |  |                                   | 8 777                                       | 3 702   |                             | 324                     | 6 523  |                              |   |   | <b>19 327</b>                                     |

## New Caledonia

## New Caledonia

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                               |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                             |  | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total        |
|---|------------------------------|----------------------------|---|---------------------------------|-------------------------------|--|-----------------------------------|---|---|-----------------------------|--|--|-------------------------------|---|--------------------------|--------------|
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás |  |  |                               |   |                          |              |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaaria |                                 |                               |  |                                   |   | Primary energy - Énergie primaire - Energía primaaria                       |                             |  |  |                               |   |                          |              |
| Production - Production - Generación  | 1939                         | 155                        | 814   | 15                              |                               |  |                                   |   | 150   | 4                           |  |  | 2                             |   |                          | 3 077        |
| Imports - Importations - Importaciones  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |  |  | - 0                           |   |                          | 2            |
| Exports - Exportations - Exportaciones  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          | - 0          |
| Stock - Stocks - Inventario (+/-)   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |              |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>1939</b>                  | <b>155</b>                 | <b>814</b>  | <b>15</b>                       |                               |  |                                   |   | <b>150</b>  | <b>4</b>                    |  |  | <b>2</b>                      |   |                          | <b>3 080</b> |
| Differences - Ecarts - Diferencias  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |              |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |              |
| Electricity - Électricité - Electrica   | - 1939                       | - 155                      | - 814   |                                 |                               |  |                                   |   | - 46  | - 4                         |  |  |                               | 2 910                                   |                          | - 3          |
| CHP - Cogénération - Cogeneración   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |              |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          | - 25         |
| Charcoal - Charbon - Carbón   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |              |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |              |
| Other - Autres - Otras  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |              |
| Own use - Consomm. propre - Uso propio  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |              |
| Distribution - Distribution - Distribución  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          | - 46         |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |              |
| Total - Total - Total   |                              |                            |   | 15                              |                               |  |                                   |   | 104   |                             |  |  | 23                            | 2 864                                   |                          | 3 006        |
| Industry - Industrie - Industria  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |  |  | 22                            | 2 221                                   |                          | 2 221        |
| Transport - Transport - Transporte  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |              |
| Commerce - Commerce - Comercial   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |  |  | 4                             | 353                                     |                          | 372          |
| Residential - Résidentiel - Residencial   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |  |  | 20                            | 290                                     |                          | 412          |
| Other - Autres - Otros  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |              |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |              |
| Total - Total - Total   | 1908                         | 153                        | 801   | 15                              |                               |  |                                   |   | 104   | 1                           |  |  | 23                            |   |                          | 3 006        |
| Electricity - Électricité - Electrica   | 1908                         | 153                        | 801   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          | 2 864        |
| Heat - Chaleur - Calor  |                              |                            |   | 15                              |                               |  |                                   |   | 104   |                             |  |  | 23                            |   |                          | 142          |
| Direct use - Utilisation directe - Uso directo  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |              |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |              |
| Electricity - Électricité - Electrica (in/en GWh)   | 539                          | 43                         | 226   |                                 |                               |  |                                   |   |   | 0                           |  |  |                               |   |                          | 808          |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |              |
| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                               |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                             |  | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total        |
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás |  |  |                               |   |                          |              |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaaria |                                 |                               |  |                                   |   | Primary energy - Énergie primaire - Energía primaaria                       |                             |  |  |                               |   |                          |              |
| Production - Production - Generación  | 1530                         | 148                        | 676   | 15                              |                               |  |                                   |   | 149   | 5                           |  |  | 1                             |   |                          | 2 522        |
| Imports - Importations - Importaciones  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |  |  | - 0                           |   |                          | 1            |
| Exports - Exportations - Exportaciones  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |  |  | 1                             |   |                          | - 0          |
| Stock - Stocks - Inventario (+/-)   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |              |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>1530</b>                  | <b>148</b>                 | <b>676</b>  | <b>15</b>                       |                               |  |                                   |   | <b>149</b>  | <b>5</b>                    |  |  | <b>1</b>                      |   |                          | <b>2 523</b> |
| Differences - Ecarts - Diferencias  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |              |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |              |
| Electricity - Électricité - Electrica   | - 1530                       | - 148                      | - 676   |                                 |                               |  |                                   |   | - 46  | - 5                         |  |  | 21                            |   |                          | - 3          |
| CHP - Cogénération - Cogeneración   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |              |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          | - 25         |
| Charcoal - Charbon - Carbón   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |              |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |              |
| Other - Autres - Otras  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |              |
| Own use - Consomm. propre - Uso propio  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |              |
| Distribution - Distribution - Distribución  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          | - 54         |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |              |
| Total - Total - Total   |                              |                            |   | 15                              |                               |  |                                   |   | 103   |                             |  |  | 22                            | 2 301                                   |                          | 2 441        |
| Industry - Industrie - Industria  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |  |  | 1761                          | 1761                                    |                          | 1761         |
| Transport - Transport - Transporte  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |  |  | 3                             | 289                                     |                          | 308          |
| Commerce - Commerce - Comercial   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |  |  | 18                            | 251                                     |                          | 372          |
| Residential - Résidentiel - Residencial   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |              |
| Other - Autres - Otros  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |              |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |              |
| Total - Total - Total   | 1495                         | 144                        | 660   | 15                              |                               |  |                                   |   | 103   | 2                           |  |  | 22                            |   |                          | 2 441        |
| Electricity - Électricité - Electrica   | 1495                         | 144                        | 660   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          | 2 301        |
| Heat - Chaleur - Calor  |                              |                            |   | 15                              |                               |  |                                   |   | 103   |                             |  |  | 22                            |   |                          | 140          |
| Direct use - Utilisation directe - Uso directo  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |              |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |              |
| Electricity - Électricité - Electrica (in/en GWh)   | 425                          | 41                         | 188   |                                 |                               |  |                                   |   |   | 0                           |  |  |                               |   |                          | 654          |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |              |

## New Zealand

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                              |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primaires -<br>Biocombustibles primarios |                                 |                             | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total                 |               |
|---|------------------------------|----------------------------|--|---------------------------------|-------------------------------|--|-----------------------------------|---|---|---------------------------------|-----------------------------|--|-------------------------------|---|--------------------------|-----------------------|---------------|
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica       | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Solidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás     |                             |  |                               |   |                          |                       |               |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaria |                                 |                               |  |                                   |   | Primary energy - Énergie primaire - Energía primaria                        |                                 |                             |  |                               |   |                          |                       |               |
| Production - Production - Generación  | 94 586                       | 10 314                     | 1 012  | 364                             | 204 885                       |  |                                   |   | 44 062  | 29<br>71                        | 3 354                       |  | 162                           |   |                          | 358 606<br>233        |               |
| Imports - Importations - Importaciones  |                              |                            |  |                                 |                               |  |                                   |   |   | 24                              |                             |  |                               |   |                          | 24                    |               |
| Exports - Exportations - Exportaciones  |                              |                            |  |                                 |                               |  |                                   |   |   | 124<br>- 9                      | 3 354                       |  | 162                           |   |                          | 358 863<br>- 3 640    |               |
| Stock - Stocks - Inventario (+/-)   | 94 586                       | 10 314                     | 1 012  | 364                             | 204 885                       |  |                                   |   | 44 062  |                                 |                             |  |                               | - 3 631                                 |                          |                       |               |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>94 586</b>                | <b>10 314</b>              | <b>1 012</b>   | <b>364</b>                      | <b>204 885</b>                |  |                                   |   |   |                                 |                             |  |                               |   |                          | <b>358 863</b>        |               |
| <i>Differences - Ecarts - Diferencias</i>   |                              |                            |  |                                 |                               |  |                                   |   |   |                                 |                             |  |                               |   |                          | <b>- 3 640</b>        |               |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |                                 |                               |  |                                   |   |   |                                 |                             |  |                               |   |                          |                       |               |
| Electricity - Électricité - Electrica   | - 94 586                     | - 10 314                   | - 1 012  |                                 | - 196 333<br>- 1 250          |  |                                   |   | - 17 471  |                                 | - 2 360<br>- 714            |  |                               | 137 268<br>2 113                        |                          | - 167 337<br>- 17 322 |               |
| CHP - Cogénération - Cogeneración   |                              |                            |  |                                 |                               |  |                                   |   |   |                                 |                             |  |                               |   |                          |                       |               |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |                               |  |                                   |   |   |                                 |                             |  |                               |   |                          |                       |               |
| Charcoal - Charbon - Carbón   |                              |                            |  |                                 |                               |  |                                   |   |   |                                 |                             |  |                               |   |                          |                       |               |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |  |                                 |                               |  |                                   |   |   |                                 |                             |  |                               |   |                          |                       |               |
| Other - Autres - Otras  |                              |                            |  |                                 |                               |  |                                   |   |   |                                 |                             |  |                               |   |                          |                       |               |
| Own use - Consomm. propre - Uso propio  |                              |                            |  |                                 |                               |  |                                   |   |   |                                 |                             |  |                               |   |                          |                       |               |
| Distribution - Distribution - Distribución  |                              |                            |  |                                 |                               |  |                                   |   |   |                                 |                             |  |                               |   |                          |                       |               |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |                                 |                               |  |                                   |   |   |                                 |                             |  |                               |   |                          |                       |               |
| <b>Total - Total - Total</b>  |                              |                            |  | <b>364</b>                      | <b>7 302</b>                  |  |                                   |   | <b>26 591</b>   | <b>115</b>                      | <b>280</b>                  |  | <b>162</b>                    | <b>120 170</b>                          |                          | <b>154 984</b>        |               |
| Industry - Industrie - Industria  |                              |                            |  |                                 | 4 270                         |  |                                   |   | 20 637  | 114                             | 45                          |  |                               | 40 813                                  |                          | <b>65 765</b>         |               |
| Transport - Transport - Transporte  |                              |                            |  |                                 | 2 378                         |  |                                   |   |   | 1                               | 235                         |  |                               | 602                                     |                          | <b>716</b>            |               |
| Commerce - Commerce - Comercial   |                              |                            |  |                                 | 209                           |  |                                   |   |   |                                 |                             |  |                               | 28 960                                  |                          | <b>31 574</b>         |               |
| Residential - Résidentiel - Residencial   |                              |                            |  |                                 | 445                           |  |                                   |   | 5 954   |                                 |                             |  |                               | 40 511                                  |                          | <b>47 200</b>         |               |
| Other - Autres - Otros  |                              |                            |  |                                 |                               |  |                                   |   |   |                                 |                             |  |                               | 9 285                                   |                          | <b>9 730</b>          |               |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |                                 |                               |  |                                   |   |   |                                 |                             |  |                               |   |                          |                       |               |
| <b>Total - Total - Total</b>  | <b>81 549</b>                | <b>8 892</b>               | <b>872</b>   | <b>364</b>                      | <b>33 821</b>                 |  |                                   |   | <b>28 050</b>   | <b>115</b>                      | <b>1 158</b>                |  | <b>162</b>                    |   |                          | <b>154 984</b>        |               |
| Electricity - Électricité - Electrica   | 81 549                       | 8 892                      | 872  |                                 | 26 519                        |  |                                   |   | 1 459   |                                 | 878                         |  |                               |   |                          | <b>120 170</b>        |               |
| Heat - Chaleur - Calor  |                              |                            |  |                                 | 364                           | 7 302                                    |                                   |   |   |                                 | 26 591                      | 115  | 280                           |   | 162                      |                       | <b>34 814</b> |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |                                 |                               |  |                                   |   |   |                                 |                             |  |                               |   |                          |                       |               |
| Electricity - Électricité - Electrica (in/en GWh)   | 26 274                       | 2 865                      | 281  |                                 | 8 544                         |  |                                   |   | 470   |                                 | 283                         |  |                               |   |                          |                       | <b>38 717</b> |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |  |                                 |                               |  |                                   |   |   |                                 |                             |  |                               |   |                          |                       |               |
| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                              |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primaires -<br>Biocombustibles primarios |                                 |                             | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total                 |               |
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica       | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Solidos |  |                                   |   | Solids - Solides<br>- Solidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás |  |                               |   |                          |                       |               |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaria |                                 |                               |  |                                   |   | Primary energy - Énergie primaire - Energía primaria                        |                                 |                             |  |                               |   |                          |                       |               |
| Production - Production - Generación  | 87 235                       | 9 511                      | 749  | 364                             | 203 684                       |  |                                   |   | 40 567  | 143<br>67                       | 3 347                       |  | 114                           |   |                          | 345 600<br>181        |               |
| Imports - Importations - Importaciones  |                              |                            |  |                                 |                               |  |                                   |   |   | - 77                            |                             |  |                               |   |                          | - 77                  |               |
| Exports - Exportations - Exportaciones  | 87 235                       | 9 511                      | 749  | 364                             | 203 684                       | 1  |                                   |   | 40 567  | 133<br>31                       | 3 347                       |  | 114                           |   |                          | 345 704<br>- 2 311    |               |
| Stock - Stocks - Inventario (+/-)   |                              |                            |  |                                 |                               |  |                                   |   |   |                                 |                             |  |                               |   |                          |                       |               |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>87 235</b>                | <b>9 511</b>               | <b>749</b>   | <b>364</b>                      | <b>203 684</b>                |  |                                   |   |   |                                 |                             |  |                               |   |                          |                       |               |
| <i>Differences - Ecarts - Diferencias</i>   |                              |                            |  |                                 |                               |  |                                   |   |   |                                 |                             |  |                               |   |                          |                       |               |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |                                 |                               |  |                                   |   |   |                                 |                             |  |                               |   |                          |                       |               |
| Electricity - Électricité - Electrica   | - 87 235                     | - 9 511                    | - 749  |                                 | - 195 014<br>- 1 285          |  |                                   |   | - 16 979  |                                 | - 2 343<br>- 724            |  |                               | 128 491<br>2 297                        |                          | - 166 361<br>- 16 691 |               |
| CHP - Cogénération - Cogeneración   |                              |                            |  |                                 |                               |  |                                   |   |   |                                 |                             |  |                               |   |                          |                       |               |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |                               |  |                                   |   |   |                                 |                             |  |                               |   |                          |                       |               |
| Charcoal - Charbon - Carbón   |                              |                            |  |                                 |                               |  |                                   |   |   |                                 |                             |  |                               |   |                          |                       |               |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |  |                                 |                               |  |                                   |   |   |                                 |                             |  |                               |   |                          |                       |               |
| Other - Autres - Otras  |                              |                            |  |                                 |                               |  |                                   |   |   |                                 |                             |  |                               |   |                          |                       |               |
| Own use - Consomm. propre - Uso propio  |                              |                            |  |                                 |                               |  |                                   |   |   |                                 |                             |  |                               |   |                          |                       |               |
| Distribution - Distribution - Distribución  |                              |                            |  |                                 |                               |  |                                   |   |   |                                 |                             |  |                               |   |                          |                       |               |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |                                 |                               |  |                                   |   |   |                                 |                             |  |                               |   |                          |                       |               |
| <b>Total - Total - Total</b>  |                              |                            |  | <b>364</b>                      | <b>7 386</b>                  |  |                                   |   | <b>23 588</b>   | <b>164</b>                      | <b>280</b>                  |  | <b>114</b>                    | <b>114 029</b>                          |                          | <b>145 925</b>        |               |
| Industry - Industrie - Industria  |                              |                            |  |                                 | 4 354                         |  |                                   |   | 17 634  | 163                             | 45                          |  |                               | 38 355<br>287                           |                          | <b>60 398</b>         |               |
| Transport - Transport - Transporte  |                              |                            |  |                                 | 2 378                         |  |                                   |   |   | 1                               | 235                         |  |                               | 27 255                                  |                          | <b>450</b>            |               |
| Commerce - Commerce - Comercial   |                              |                            |  |                                 | 209                           |  |                                   |   |   |                                 |                             |  |                               | 38 877                                  |                          | <b>29 869</b>         |               |
| Residential - Résidentiel - Residencial   |                              |                            |  |                                 | 445                           |  |                                   |   | 5 954   |                                 |                             |  |                               | 9 256                                   |                          | <b>45 518</b>         |               |
| Other - Autres - Otros  |                              |                            |  |                                 |                               |  |                                   |   |   |                                 |                             |  |                               |   |                          | <b>9 701</b>          |               |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |                                 |                               |  |                                   |   |   |                                 |                             |  |                               |   |                          |                       |               |
| <b>Total - Total - Total</b>  | <b>76 057</b>                | <b>8 292</b>               | <b>653</b>   | <b>364</b>                      | <b>33 899</b>                 |  |                                   |   | <b>25 211</b>   | <b>164</b>                      | <b>1 171</b>                |  | <b>114</b>                    |   |                          | <b>145 925</b>        |               |
| Electricity - Électricité - Electrica   | 76 057                       | 8 292                      | 653  |                                 | 26 513                        |  |                                   |   | 1 623   |                                 | 891                         |  |                               |   |                          | <b>114 029</b>        |               |
| Heat - Chaleur - Calor  |                              |                            |  |                                 | 364                           | 7 386                                    |                                   |   |   |                                 | 23 588                      | 164  | 280                           |   |                          | <b>31 896</b>         |               |
| Direct use - Utilisation directe - Uso directo  |                              |                            |  |                                 |                               |  |                                   |   |   |                                 |                             |  |                               |   |                          |                       |               |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |                                 |                               |  |                                   |   |   |                                 |                             |  |                               |   |                          |                       |               |
| Electricity - Électricité - Electrica (in/en GWh)   | 24 232                       | 2 642                      | 208  |                                 | 8 447                         |  |                                   |   | 517   |                                 | 284                         |  |                               |   |                          |                       | <b>36 330</b> |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |  |                                 |                               |  |                                   |   |   |                                 |                             |  |                               |   |                          |                       |               |

## Nicaragua

## Nicaragua

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                        |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                                 | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total    |
|---|------------------------------|----------------------------|--|---------------------------------|--|-----------------------------------|---|---|---------------------------------|--|-------------------------------|---|--------------------------|----------|
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás                      |                               |   |                          |          |
| <b>Primary energy - Énergie primaire - Energía primaria</b>   |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |          |
| Production - Production - Generación  | 2 337                        | 2 023                      | 94   |                                 | 6 113                                    |                                   |   | 65 224  |                                 | 92   |                               |   | 2 377                    |          |
| Imports - Importations - Importaciones  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          | 75 883   |
| Exports - Exportations - Exportaciones  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          | 2 377    |
| Stock - Stocks - Inventario (+/-)   |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |          |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>2 337</b>                 | <b>2 023</b>               | <b>94</b>                                      |                                 | <b>6 113</b>                             |                                   |   | <b>65 224</b>   |                                 | <b>92</b>  |                               |   | <b>2 377</b>             |          |
| Differences - Ecarts - Diferencias  |                              |                            |  |                                 |  |                                   |   | - 147   |                                 |  |                               |   | - 51                     |          |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |          |
| Electricity - Électricité - Electrica   | - 2 337                      | - 2 023                    | - 94   |                                 | - 6 113                                  |                                   |   | - 495   |                                 | - 92   |                               |   | 6 958                    |          |
| CHP - Cogénération - Cogeneración   |                              |                            |  |                                 |  |                                   |   | - 16 842  |                                 |  |                               |   | 3 224                    |          |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |  |                                   |   | - 1112  |                                 |  |                               |   |                          | - 4 103  |
| Charcoal - Charbon - Carbón   |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          | - 13 710 |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          | - 804    |
| Other - Autres - Otras  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          | - 527    |
| Own use - Consomm. propre - Uso propio  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          | - 2 561  |
| Distribution - Distribution - Distribución  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |          |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |          |
| Total - Total - Total   |                              |                            |  |                                 |  |                                   |   | 46 629  |                                 |  |                               |   | 308                      | 9 229    |
| Industry - Industrie - Industria  |                              |                            |  |                                 |  |                                   |   | 2 603   |                                 |  |                               |   | 2 825                    |          |
| Transport - Transport - Transporte  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          | 56 165   |
| Commerce - Commerce - Comercial   |                              |                            |  |                                 |  |                                   |   | 1233  |                                 |  |                               |   | 100                      | 2 779    |
| Residential - Résidentiel - Residencial   |                              |                            |  |                                 |  |                                   |   | 41 269  |                                 |  |                               |   | 160                      | 3 037    |
| Other - Autres - Otros  |                              |                            |  |                                 |  |                                   |   | 1524  |                                 |  |                               |   | 47                       | 588      |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |          |
| Total - Total - Total   | 2 119                        | 1 833                      | 85   |                                 | 2 242                                    |                                   |   | 49 534  |                                 | 44   |                               |   | 308                      | 9 229    |
| Electricity - Électricité - Electrica   | 2 119                        | 1 833                      | 85   |                                 | 2 242                                    |                                   |   | 2 906   |                                 | 44   |                               |   |                          | 5 428    |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |  |                                   |   | 46 629  |                                 |  |                               |   | 308                      |          |
| Direct use - Utilisation directe - Uso directo  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          | 44 467   |
|   |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          | 2 159    |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |          |
| Electricity - Électricité - Electrica (in/en GWh)   | 649                          | 562                        | 26   |                                 | 687                                      |                                   |   | 890   |                                 | 13   |                               |   |                          | 2 828    |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |          |

| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                        |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                                 | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total    |
|---|------------------------------|----------------------------|--|---------------------------------|--|-----------------------------------|---|---|---------------------------------|--|-------------------------------|---|--------------------------|----------|
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás                      |                               |   |                          |          |
| <b>Primary energy - Énergie primaire - Energía primaria</b>   |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |          |
| Production - Production - Generación  | 2 153                        | 2 361                      | 98   |                                 | 6 113                                    |                                   |   | 65 224  |                                 | 92   |                               |   | 2 507                    |          |
| Imports - Importations - Importaciones  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          | 76 042   |
| Exports - Exportations - Exportaciones  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          | 2 507    |
| Stock - Stocks - Inventario (+/-)   |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |          |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>2 153</b>                 | <b>2 361</b>               | <b>98</b>                                      |                                 | <b>6 113</b>                             |                                   |   | <b>65 224</b>   |                                 | <b>92</b>  |                               |   | <b>2 507</b>             |          |
| Differences - Ecarts - Diferencias  |                              |                            |  |                                 |  |                                   |   | - 147   |                                 |  |                               |   | - 54                     |          |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |          |
| Electricity - Électricité - Electrica   | - 2 153                      | - 2 361                    | - 98   |                                 | - 6 113                                  |                                   |   | - 495   |                                 | - 92   |                               |   | 7 285                    |          |
| CHP - Cogénération - Cogeneración   |                              |                            |  |                                 |  |                                   |   | - 16 842  |                                 |  |                               |   | 3 254                    |          |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |  |                                   |   | - 1112  |                                 |  |                               |   |                          | - 3 935  |
| Charcoal - Charbon - Carbón   |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          | - 13 680 |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          | - 804    |
| Other - Autres - Otras  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          | - 556    |
| Own use - Consomm. propre - Uso propio  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          | - 2 702  |
| Distribution - Distribution - Distribución  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |          |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |          |
| Total - Total - Total   |                              |                            |  |                                 |  |                                   |   | 46 629  |                                 |  |                               |   | 308                      | 9 734    |
| Industry - Industrie - Industria  |                              |                            |  |                                 |  |                                   |   | 2 603   |                                 |  |                               |   | 2 979                    |          |
| Transport - Transport - Transporte  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          | 56 670   |
| Commerce - Commerce - Comercial   |                              |                            |  |                                 |  |                                   |   | 1233  |                                 |  |                               |   | 100                      | 2 931    |
| Residential - Résidentiel - Residencial   |                              |                            |  |                                 |  |                                   |   | 41 269  |                                 |  |                               |   | 160                      | 3 203    |
| Other - Autres - Otros  |                              |                            |  |                                 |  |                                   |   | 1524  |                                 |  |                               |   | 47                       | 620      |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |          |
| Total - Total - Total   | 1 989                        | 2 181                      | 91   |                                 | 2 441                                    |                                   |   | 49 617  |                                 | 45   |                               |   | 308                      | 9 734    |
| Electricity - Électricité - Electrica   | 1 989                        | 2 181                      | 91   |                                 | 2 441                                    |                                   |   | 2 989   |                                 | 45   |                               |   |                          | 5 582    |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |  |                                   |   | 46 629  |                                 |  |                               |   | 308                      |          |
| Direct use - Utilisation directe - Uso directo  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          | 44 633   |
|   |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          | 2 191    |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |          |
| Electricity - Électricité - Electrica (in/en GWh)   | 598                          | 656                        | 27   |                                 | 734                                      |                                   |   | 899   |                                 | 13   |                               |   |                          | 2 928    |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |          |

Niger

Niger

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Eoliennes<br>Éolica | Solar - Solaire - Solar                               |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios   |                             |  | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total    |    |
|---|------------------------------|-----------------------------|---|---------------------------------|-------------------------------|--|-----------------------------------|---|---|-----------------------------|--|--|-------------------------------|---|--------------------------|----------|----|
|   |                              |                             | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás |  |  |                               |   |                          |          |    |
|   |                              |                             | Primary energy - Énergie primaire - Energía primaaria |                                 |                               |  |                                   |   | Primary energy - Énergie primaire - Energía primaaria   |                             |  |  |                               |   |                          |          |    |
| Production - Production - Generación  |                              |                             |   | 87                              |                               |  |                                   |   | 142 592   |                             |  |  |                               | 128                                     | 160                      | 142 680  |    |
| Imports - Importations - Importaciones  |                              |                             |   | 87                              |                               |  |                                   |   | 142 592   |                             |  |  |                               | - 0                                     | 160                      | 288      |    |
| Exports - Exportations - Exportaciones  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               | 128                                     |                          | - 0      |    |
| Stock - Stocks - Inventario (+/-)   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               | 160                                     |                          |          |    |
| <b>Supply - Approvisionnement - Oferta</b>  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               | 128                                     | 160                      | 142 968  |    |
| Differences - Ecarts - Diferencias  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               | - 37                                    |                          | - 37     |    |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                             |   |                                 |                               |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                             |  |  |                               |   |                          |          |    |
| Electricity - Électricité - Electrica   |                              |                             |   | - 87                            |                               |  |                                   |   | - 57 266  |                             |  |  |                               | 25 923                                  | 87                       |          |    |
| CHP - Cogénération - Cogeneración   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          | - 31 343 |    |
| Heat - Chaleur - Calor  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |          |    |
| Charcoal - Charbon - Carbón   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |          |    |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |          |    |
| Other - Autres - Otras  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |          |    |
| Own use - Consomm. propre - Uso propio  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |          |    |
| Distribution - Distribution - Distribución  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |          |    |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                             |   |                                 |                               |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                             |  |  |                               |   |                          |          |    |
| <b>Total - Total - Total</b>  |                              |                             |   |                                 |                               |  |                                   |   | 85 326  |                             |  |  |                               | 26 051                                  | - 92                     | 111 285  |    |
| Industry - Industrie - Industria  |                              |                             |   |                                 |                               |  |                                   |   | 85 326  |                             |  |  |                               |   | - 16                     | - 16     |    |
| Transport - Transport - Transporte  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               | 26 051                                  | - 25                     | - 25     |    |
| Commerce - Commerce - Comercial   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   | - 51                     | 111 326  |    |
| Residential - Résidentiel - Residencial   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   | - 1                      | - 1      |    |
| Other - Autres - Otros  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   | 301                      | 301      |    |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                             |   |                                 |                               |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                             |  |  |                               |   |                          |          |    |
| <b>Total - Total - Total</b>  |                              |                             |   | - 92                            |                               |  |                                   |   | 85 326  |                             |  |  |                               | 26 051                                  |                          | 111 285  |    |
| Electricity - Électricité - Electrica   |                              |                             |   | - 92                            |                               |  |                                   |   | 85 326  |                             |  |  |                               |   |                          | - 92     |    |
| Heat - Chaleur - Calor  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               | 26 051                                  |                          | 111 377  |    |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                             |   |                                 |                               |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                             |  |  |                               |   |                          |          |    |
| Electricity - Électricité - Electrica (in/en GWh)   |                              |                             |   | 24                              |                               |  |                                   |   |   |                             |  |  |                               |   |                          |          | 24 |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |          |    |
| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Eoliennes<br>Éolica | Solar - Solaire - Solar                               |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios   |                             |  | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total    |    |
|   |                              |                             | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás |  |  |                               |   |                          |          |    |
|   |                              |                             | Primary energy - Énergie primaire - Energía primaaria |                                 |                               |  |                                   |   | Primary energy - Énergie primaire - Energía primaaria   |                             |  |  |                               |   |                          |          |    |
| Production - Production - Generación  |                              |                             |   | 86                              |                               |  |                                   |   | 139 891   |                             |  |  |                               | 0                                       | 152                      | 139 977  |    |
| Imports - Importations - Importaciones  |                              |                             |   | 86                              |                               |  |                                   |   | 139 891   |                             |  |  |                               | - 6                                     |                          | 152      |    |
| Exports - Exportations - Exportaciones  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               | - 6                                     | 152                      | - 6      |    |
| Stock - Stocks - Inventario (+/-)   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |          |    |
| <b>Supply - Approvisionnement - Oferta</b>  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |          |    |
| Differences - Ecarts - Diferencias  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |          |    |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                             |   |                                 |                               |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                             |  |  |                               |   |                          |          |    |
| Electricity - Électricité - Electrica   |                              |                             |   | - 86                            |                               |  |                                   |   | - 55 633  |                             |  |  |                               | 25 184                                  | 86                       |          |    |
| CHP - Cogénération - Cogeneración   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          | - 30 449 |    |
| Heat - Chaleur - Calor  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |          |    |
| Charcoal - Charbon - Carbón   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |          |    |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |          |    |
| Other - Autres - Otras  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |          |    |
| Own use - Consomm. propre - Uso propio  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |          |    |
| Distribution - Distribution - Distribución  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |          |    |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                             |   |                                 |                               |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                             |  |  |                               |   |                          |          |    |
| <b>Total - Total - Total</b>  |                              |                             |   |                                 |                               |  |                                   |   | 84 258  |                             |  |  |                               | 25 178                                  | 173                      | 109 609  |    |
| Industry - Industrie - Industria  |                              |                             |   |                                 |                               |  |                                   |   | 84 258  |                             |  |  |                               |   | 32                       | 32       |    |
| Transport - Transport - Transporte  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               | 25 178                                  | 46                       | 46       |    |
| Commerce - Commerce - Comercial   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   | 94                       | 109 530  |    |
| Residential - Résidentiel - Residencial   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   | 1                        | 1        |    |
| Other - Autres - Otros  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |          |    |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                             |   |                                 |                               |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                             |  |  |                               |   |                          |          |    |
| <b>Total - Total - Total</b>  |                              |                             |   | 173                             |                               |  |                                   |   | 84 258  |                             |  |  |                               | 25 178                                  |                          | 109 609  |    |
| Electricity - Électricité - Electrica   |                              |                             |   | 173                             |                               |  |                                   |   | 84 258  |                             |  |  |                               |   |                          | 173      |    |
| Heat - Chaleur - Calor  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               | 25 178                                  |                          | 109 436  |    |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                             |   |                                 |                               |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                             |  |  |                               |   |                          |          |    |
| Electricity - Électricité - Electrica (in/en GWh)   |                              |                             |   | 24                              |                               |  |                                   |   |   |                             |  |  |                               |   |                          |          | 24 |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |          |    |

## Nigeria

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                               |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios   |                                 |                             | Pellets/briq.<br>Granules/briq.<br>Pellets/briq.      | Charcoal<br>Carbon<br>Carbon | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total         |   |                |                 |  |
|---|------------------------------|----------------------------|---|---------------------------------|--|-----------------------------------|---|---|---------------------------------|-----------------------------|---|------------------------------|---|--------------------------|---------------|---|----------------|-----------------|--|
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás |   |                              |   |                          |               |   |                |                 |  |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaaria |                                 |  |                                   |   |   |                                 |                             | Primary energy - Énergie primaire - Energía primaaria |                              |   |                          |               |   |                |                 |  |
| Production - Production - Generación  | 33 247                       |                            |   | 543                             |  |                                   |   |   |                                 | 771 794                     |   | 6                            | 0                                       | 13                       | - 3 059       | - 866   |                | 805 590         |  |
| Imports - Importations - Importaciones  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |   |                          | - 3 925       | 13  |                |                 |  |
| Exports - Exportations - Exportaciones  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |   |                          |               |   |                |                 |  |
| Stock - Stocks - Inventario (+/-)   | 33 247                       |                            |   | 543                             |  |                                   |   |   |                                 | 771 794                     |   | 6                            | 0                                       | - 3 046                  | - 866         | - 176   | 801 679        | - 62 916        |  |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>33 247</b>                |                            |   | <b>543</b>                      |  |                                   |   |   |                                 | <b>771 794</b>              |   | <b>6</b>                     | <b>0</b>                                | <b>- 3 046</b>           | <b>- 866</b>  | <b>- 176</b>  | <b>801 679</b> | <b>- 62 916</b> |  |
| Differences - Ecarts - Diferencias  |                              |                            |   |                                 |  |                                   |   |   |                                 | - 62 740                    |   |                              |   |                          |               |   |                |                 |  |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |   |                                 |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                                 |                             |   |                              |   |                          |               |   |                |                 |  |
| Electricity - Electricité - Electrica   | - 33 247                     |                            |   | - 543                           |  |                                   |   |   |                                 | - 462                       |   | - 1                          |   |                          |               |   | - 243          |                 |  |
| CHP - Cogénération - Cogeneración   |                              |                            |   |                                 |  |                                   |   |   |                                 | - 59                        |   | - 0                          |   |                          |               |   | - 60           |                 |  |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |  |                                   |   |   |                                 | - 333 935                   |   |                              |   |                          |               |   |                | - 182 771       |  |
| Charcoal - Charbon - Carbón   |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |   |                          |               |   |                |                 |  |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |   |                          |               |   |                |                 |  |
| Other - Autres - Otras  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |   |                          |               |   | - 451          |                 |  |
| Own use - Consomm. propre - Uso propio  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |   |                          |               |   | - 8 530        |                 |  |
| Distribution - Distribution - Distribución  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |   |                          |               |   |                |                 |  |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |   |                                 |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                                 |                             |   |                              |   |                          |               |   |                |                 |  |
| <b>Total - Total - Total</b>  |                              |                            |   |                                 |  |                                   |   | <b>374 598</b>  |                                 | <b>3 410</b>                |   | <b>5</b>                     | <b>0</b>                                | <b>148 118</b>           | <b>23 987</b> |   | <b>546 708</b> |                 |  |
| Industry - Industrie - Industria  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |   |                          |               |   |                | <b>7 336</b>    |  |
| Transport - Transport - Transporte  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |   |                          |               |   |                |                 |  |
| Commerce - Commerce - Comercial   |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |   |                          |               |   |                | <b>31 122</b>   |  |
| Residential - Résidentiel - Residencial   |                              |                            |   |                                 |  |                                   |   | 369 994   |                                 | 1194                        |   | 4                            | 0                                       | 24 574                   | 6 548         |   |                | <b>507 055</b>  |  |
| Other - Autres - Otros  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |   |                          |               |   |                | <b>1194</b>     |  |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |   |                                 |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                                 |                             |   |                              |   |                          |               |   |                |                 |  |
| <b>Total - Total - Total</b>  | <b>23 449</b>                |                            |   | <b>383</b>                      |  |                                   |   | <b>374 753</b>  |                                 | <b>155</b>                  |   | <b>5</b>                     | <b>0</b>                                | <b>148 118</b>           |               |   | <b>546 708</b> |                 |  |
| Electricity - Electricité - Electrica   | 23 449                       |                            |   | 383                             |  |                                   |   |   |                                 |                             |   |                              |   |                          |               |   |                | <b>23 987</b>   |  |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |   |                          |               |   |                | <b>522 720</b>  |  |
| Direct use - Utilisation directe - Uso directo  |                              |                            |   |                                 |  |                                   |   | 374 598   |                                 |                             |   | 5                            | 0                                       | 148 118                  |               |   |                |                 |  |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |   |                                 |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                                 |                             |   |                              |   |                          |               |   |                |                 |  |
| Electricity - Electricité - Electrica (in/en GWh)   | 9 235                        |                            |   | 151                             |  |                                   |   |   |                                 | 61                          |   | 0                            |   |                          |               |   |                | <b>9 447</b>    |  |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |   |                          |               |   |                |                 |  |
| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                               |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios   |                                 |                             | Pellets/briq.<br>Granules/briq.<br>Pellets/briq.      | Charcoal<br>Carbon<br>Carbon | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total         |   |                |                 |  |
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás |   |                              |   |                          |               |   |                |                 |  |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaaria |                                 |  |                                   |   |   |                                 |                             |   |                              |   |                          |               | Primary energy - Énergie primaire - Energía primaaria |                |                 |  |
| Production - Production - Generación  | 32 954                       |                            |   | 387                             |  |                                   |   |   |                                 | 767 629                     |   | 6                            |   | 3                        |               |   | 800 975        |                 |  |
| Imports - Importations - Importaciones  |                              |                            |   |                                 |  |                                   |   |   |                                 | - 4                         |   |                              |   | - 3 654                  | - 2 628       |   |                | - 6 286         |  |
| Exports - Exportations - Exportaciones  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |   |                          |               |   |                |                 |  |
| Stock - Stocks - Inventario (+/-)   | 32 954                       |                            |   | 387                             |  |                                   |   |   |                                 | 767 624                     |   | 6                            |   | - 3 650                  | - 2 628       | - 130   | <b>794 693</b> | - 130           |  |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>32 954</b>                |                            |   | <b>387</b>                      |  |                                   |   |   |                                 |                             |   |                              |   |                          |               |   |                |                 |  |
| Differences - Ecarts - Diferencias  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |   |                          |               |   |                |                 |  |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |   |                                 |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                                 |                             |   |                              |   |                          |               |   |                |                 |  |
| Electricity - Electricité - Electrica   | - 32 954                     |                            |   | - 387                           |  |                                   |   |   |                                 | - 468                       |   | - 1                          |   |                          |               |   | - 249          |                 |  |
| CHP - Cogénération - Cogeneración   |                              |                            |   |                                 |  |                                   |   |   |                                 | - 54                        |   | - 0                          |   |                          |               |   | - 54           |                 |  |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |  |                                   |   |   |                                 | - 328 544                   |   |                              |   |                          |               |   |                | - 179 820       |  |
| Charcoal - Charbon - Carbón   |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |   |                          |               |   |                |                 |  |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |   |                          |               |   |                |                 |  |
| Other - Autres - Otras  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |   |                          |               |   |                |                 |  |
| Own use - Consomm. propre - Uso propio  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |   |                          |               |   | - 468          |                 |  |
| Distribution - Distribution - Distribución  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |   |                          |               |   | - 6 521        |                 |  |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |   |                                 |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                                 |                             |   |                              |   |                          |               |   |                |                 |  |
| <b>Total - Total - Total</b>  |                              |                            |   |                                 |  |                                   |   | <b>438 559</b>  |                                 | <b>44 032</b>               |   | <b>5</b>                     |   | <b>145 073</b>           | <b>23 814</b> |   | <b>607 450</b> |                 |  |
| Industry - Industrie - Industria  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |   |                          |               |   |                | <b>47 969</b>   |  |
| Transport - Transport - Transporte  |                              |                            |   |                                 |  |                                   |   | 22 291  |                                 | 0                           |   | 0                            |   | 24 069                   | 6 480         |   |                | <b>52 840</b>   |  |
| Commerce - Commerce - Comercial   |                              |                            |   |                                 |  |                                   |   | 371 042   |                                 | 1194                        |   | 4                            |   | 120 419                  | 13 982        |   |                | <b>505 447</b>  |  |
| Residential - Résidentiel - Residencial   |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |   |                          |               |   |                | <b>1194</b>     |  |
| Other - Autres - Otros  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |   |                          |               |   |                |                 |  |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |   |                                 |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                                 |                             |   |                              |   |                          |               |   |                |                 |  |
| <b>Total - Total - Total</b>  | <b>23 383</b>                |                            |   | <b>275</b>                      |  |                                   |   | <b>438 715</b>  |                                 | <b>156</b>                  |   | <b>5</b>                     |   | <b>145 073</b>           |               |   | <b>607 450</b> |                 |  |
| Electricity - Electricité - Electrica   | 23 383                       |                            |   | 275                             |  |                                   |   |   |                                 |                             |   | 0                            |   |                          |               |   |                | <b>23 814</b>   |  |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |   |                          |               |   |                |                 |  |
| Direct use - Utilisation directe - Uso directo  |                              |                            |   |                                 |  |                                   |   | 438 559   |                                 |                             |   | 5                            |   | 145 073                  |               |   |                | <b>583 636</b>  |  |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |   |                                 |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                                 |                             |   |                              |   |                          |               |   |                |                 |  |
| Electricity - Electricité - Electrica (in/en GWh)   | 9 154                        |                            |   | 108                             |  |                                   |   |   |                                 | 61                          |   | 0                            |   |                          |               |   |                | <b>9 322</b>    |  |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |   |                          |               |   |                |                 |  |

## North Macedonia

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                              |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarias -<br>Biocombustibles primarios |                             |            | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total |               |
|---|------------------------------|----------------------------|--|---------------------------------|-------------------------------|--|-----------------------------------|---|---|-----------------------------|------------|--|-------------------------------|---|--------------------------|-------|---------------|
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica       | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás |            |  |                               |   |                          |       |               |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaria |                                 |                               |  |                                   |   | Primary energy - Énergie primaire - Energía primaria                        |                             |            |  |                               |   |                          |       |               |
| Production - Production - Generación  | 4 843                        | 388                        | 331  | 121                             | 185                           |  |                                   |   | 6 199   |                             | 740        |  | 1 286                         |   | 6 851                    |       | 12 806        |
| Imports - Importations - Importaciones  |                              |                            |  |                                 |                               | 221                                      |                                   |   | - 0   |                             |            | - 11   |                               | 2                                       |                          |       | 8 359         |
| Exports - Exportations - Exportaciones  |                              |                            |  |                                 |                               | - 75                                     |                                   |   | 9   |                             |            | 2  |                               |   |                          |       | - 5 495       |
| Stock - Stocks - Inventario (+/-)   |                              |                            |  |                                 |                               | 6 495                                    |                                   |   | 9   |                             | 740        |  | 1 276                         |   |                          |       | 86            |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>4 843</b>                 | <b>388</b>                 | <b>331</b>   | <b>121</b>                      | <b>185</b>                    | <b>- 0</b>                               |                                   |   | <b>6 495</b>  |                             | <b>740</b> |  | <b>1 276</b>                  |   | <b>1 368</b>             |       | <b>15 756</b> |
| Differences - Ecarts - Diferencias  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               | 0                                       |                          |       | 0             |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |       |               |
| Electricity - Électricité - Eléctrica   | - 4 843                      | - 388                      | - 331  |                                 |                               |  |                                   |   |   |                             | - 740      |  |                               |   |                          |       | - 555         |
| CHP - Cogénération - Cogeneración   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |       |               |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |       |               |
| Charcoal - Charbon - Carbón   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |       |               |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |       |               |
| Other - Autres - Otras  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |       |               |
| Own use - Consomm. propre - Uso propio  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |       |               |
| Distribution - Distribution - Distribución  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |       |               |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |       |               |
| Total - Total - Total   |                              |                            |  | 121                             | 168                           |  |                                   |   | 6 495   | 9                           |            | 1 276  | 77                            |   | 5 705                    |       | 13 774        |
| Industry - Industrie - Industria  |                              |                            |  |                                 |                               |  |                                   |   | 237   |                             |            |  |                               |   | 1 368                    |       | 1 682         |
| Transport - Transport - Transporte  |                              |                            |  |                                 |                               |  |                                   |   |   | 9                           |            |  |                               |   | 12                       |       | 21            |
| Commerce - Commerce - Comercial   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |            | 32   |                               |   | 1 303                    |       | 1 517         |
| Residential - Résidentiel - Residencial   |                              |                            |  | 121                             | 35                            |  |                                   |   |   |                             |            | 1 167  |                               |   | 2 983                    |       | 10 323        |
| Other - Autres - Otros  |                              |                            |  |                                 | 133                           |  |                                   |   |   |                             |            |  |                               |   | 39                       |       | 230           |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |       |               |
| Total - Total - Total   | 4 808                        | 385                        | 328  | 121                             | 168                           |  |                                   |   | 6 495   | 9                           | 184        | 1 276  |                               |   |                          |       | 13 774        |
| Electricity - Électricité - Eléctrica   | 4 808                        | 385                        | 328  |                                 |                               |  |                                   |   |   |                             | 184        |  |                               |   |                          |       | 5 705         |
| Heat - Chaleur - Calor  |                              |                            |  | 121                             | 168                           |  |                                   |   |   |                             |            | 1 276  |                               |   |                          |       | 8 069         |
| Direct use - Utilisation directe - Uso directo  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |       |               |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |       |               |
| Electricity - Électricité - Eléctrica (in/en GWh)   | 1 345                        | 108                        | 92   |                                 |                               |  |                                   |   |   |                             |            | 51   |                               |   |                          |       | 1 596         |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |       |               |
| 2021 (In/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                              |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarias -<br>Biocombustibles primarios |                             |            | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total |               |
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica       | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás |            |  |                               |   |                          |       |               |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaria |                                 |                               |  |                                   |   | Primary energy - Énergie primaire - Energía primaria                        |                             |            |  |                               |   |                          |       |               |
| Production - Production - Generación  | 5 226                        | 372                        | 184  | 121                             | 195                           |  |                                   |   | 6 825   | 164                         |            | 775  |                               |   |                          |       | 13 698        |
| Imports - Importations - Importaciones  |                              |                            |  |                                 |                               |  |                                   |   | 164   |                             |            |  | 1 601                         |   |                          |       | 9 766         |
| Exports - Exportations - Exportaciones  |                              |                            |  |                                 |                               |  |                                   |   |   | 75                          |            | 4  |                               |   |                          |       | - 5 335       |
| Stock - Stocks - Inventario (+/-)   |                              |                            |  |                                 |                               |  |                                   |   |   | 7065                        | 4          | 775  | 1 668                         |   |                          |       | 156           |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>5 226</b>                 | <b>372</b>                 | <b>184</b>   | <b>121</b>                      | <b>195</b>                    |  |                                   |   | <b>7 065</b>  | <b>4</b>                    | <b>775</b> |  | <b>1 668</b>                  |   | <b>2 676</b>             |       | <b>18 285</b> |
| Differences - Ecarts - Diferencias  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |       |               |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |       |               |
| Electricity - Électricité - Eléctrica   | - 5 226                      | - 372                      | - 184  |                                 |                               |  |                                   |   |   |                             |            | - 775  |                               |   |                          |       | - 581         |
| CHP - Cogénération - Cogeneración   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |       |               |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |       |               |
| Charcoal - Charbon - Carbón   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |       |               |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |       |               |
| Other - Autres - Otras  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |       |               |
| Own use - Consomm. propre - Uso propio  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |       |               |
| Distribution - Distribution - Distribución  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |       |               |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |       |               |
| Total - Total - Total   |                              |                            |  | 121                             | 179                           |  |                                   |   | 7 064   | 4                           |            | 1 668  | 288                           |   | 7 091                    |       | 16 126        |
| Industry - Industrie - Industria  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |            | 4  |                               |   | 1 853                    |       | 2 398         |
| Transport - Transport - Transporte  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |            |  | 257                           |   | 15                       |       | 19            |
| Commerce - Commerce - Comercial   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |            |  | 34                            |   | 1 595                    |       | 1 793         |
| Residential - Résidentiel - Residencial   |                              |                            |  | 121                             | 32                            |  |                                   |   |   |                             |            |  | 1 376                         |   | 3 583                    |       | 11 663        |
| Other - Autres - Otros  |                              |                            |  |                                 | 147                           |  |                                   |   |   |                             |            |  | 61                            |   | 45                       |       | 253           |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |       |               |
| Total - Total - Total   | 6 202                        | 441                        | 218  | 121                             | 179                           |  |                                   |   | 7 064   | 4                           | 230        | 1 668  |                               |   |                          |       | 16 126        |
| Electricity - Électricité - Eléctrica   | 6 202                        | 441                        | 218  |                                 |                               |  |                                   |   |   |                             | 230        |  |                               |   |                          |       | 7 091         |
| Heat - Chaleur - Calor  |                              |                            |  | 121                             | 179                           |  |                                   |   |   |                             |            | 1 668  |                               |   |                          |       | 9 035         |
| Direct use - Utilisation directe - Uso directo  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |       |               |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |       |               |
| Electricity - Électricité - Eléctrica (in/en GWh)   | 1 452                        | 103                        | 51   |                                 |                               |  |                                   |   |   |                             |            | 54   |                               |   |                          |       | 1 660         |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |       |               |

## Norway

| 2022 (In/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                               |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios   |                             |                    | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total                         |        |
|---|------------------------------|----------------------------|---|---------------------------------|-------------------------------|--|-----------------------------------|---|---|-----------------------------|--------------------|--|-------------------------------|---|--------------------------|-------------------------------|--------|
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás |                    |  |                               |   |                          |                               |        |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaaria |                                 |                               |  |                                   |   | Primary energy - Énergie primaire - Energía primaaria   |                             |                    |  |                               |   |                          |                               |        |
| Production - Production - Generación  | 461 664                      | 53 315                     | 622   | 58                              |                               | 40 121                                   | 8 499                             |   | 48 547<br>2 037<br>- 868  | 3 033<br>14 795<br>- 2 548  | 2 550<br>2<br>- 22 | 1 145<br>- 1 414                                 | 1 548<br>- 34                 | 46 711<br>- 90 780                      |                          | 618 411<br>66 237<br>- 95 666 |        |
| Imports - Importations - Importaciones  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |                    |  |                               |   |                          |                               |        |
| Exports - Exportations - Exportaciones  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |                    |  |                               |   |                          |                               |        |
| Stock - Stocks - Inventario (+/-)   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |                    |  |                               |   |                          |                               |        |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>461 664</b>               | <b>53 315</b>              | <b>622</b>  | <b>58</b>                       |                               | <b>40 121</b>                            | <b>8 499</b>                      | <b>1</b>                                    | <b>49 716</b>   | <b>15 281</b>               | <b>2 530</b>       | <b>- 269</b>                                     | <b>1 514</b>                  | <b>- 44 069</b>                         |                          | <b>588 983</b>                |        |
| Differences - écarts - Diferencias  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |                    |  |                               |   |                          | <b>347</b>                    |        |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |   |                                 |                               |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                             |                    |  |                               |   |                          |                               |        |
| Electricity - Électricité - Electrica   | - 461 664                    | - 53 315                   | - 622   |                                 |                               | - 1 551                                  | - 4 221                           | - 3 164                                     | - 2 452<br>- 8 491  | - 28<br>- 971               | - 4<br>- 162       |  |                               | 515 602<br>856                          | 4 517<br>11 764          | - 3<br>- 2 576                |        |
| CHP - Cogénération - Cogeneración   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |                    |  |                               |   |                          |                               |        |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |                    |  |                               |   |                          |                               |        |
| Charcoal - Charbon - Carbón   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |                    |  |                               |   |                          |                               |        |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |                    |  |                               |   |                          |                               |        |
| Other - Autres - Otras  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |                    |  |                               |   |                          |                               |        |
| Own use - Consomm. propre - Uso propio  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |                    |  |                               |   |                          |                               |        |
| Distribution - Distribution - Distribución  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |                    |  |                               |   |                          |                               |        |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |   |                                 |                               |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                             |                    |  |                               |   |                          |                               |        |
| Total - Total - Total   |                              |                            |   | 58                              |                               | 38 570                                   | 1 113                             |   | 35 807  | 14 445                      | 1 911              | 2 697  | 1 497                         | 404 969                                 | 14 201                   | 515 268                       |        |
| Industry - Industrie - Industria  |                              |                            |   |                                 |                               | 3 109                                    | 1 113                             |   | 13 657  | 80                          | 238                | 270  | 1 285                         | 168 933                                 | 1 891                    | 190 578                       |        |
| Transport - Transport - Transporte  |                              |                            |   |                                 |                               | 10 749                                   |                                   |   | 14 302  | 1 306                       |                    |  |                               | 10 258                                  |                          | 25 865                        |        |
| Commerce - Commerce - Comercial   |                              |                            |   |                                 |                               | 24 711                                   |                                   |   | 61  | 366                         |                    |  |                               | 89 784                                  | 8 474                    | 110 272                       |        |
| Residential - Résidentiel - Residencial   |                              |                            |   |                                 |                               |  |                                   |   | 21 311  |                             |                    |  | 2 427                         | 127 935                                 | 3 815                    | 180 412                       |        |
| Other - Autres - Otros  |                              |                            | 58  |                                 |                               |  |                                   |   |   | 2                           | 0                  |  |                               | 8 059                                   | 21                       | 8 140                         |        |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |   |                                 |                               |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                             |                    |  |                               |   |                          |                               |        |
| Total - Total - Total   | 362 003                      | 41 806                     | 488   | 58                              |                               | 40 673                                   | 6 639                             |   | 42 095  | 15 268                      | 2 044              | 2 697  | 1 497                         |   |                          | 515 268                       |        |
| Electricity - Électricité - Electrica   | 362 003                      | 41 806                     | 488   |                                 |                               |  |                                   |   | 579   | 91                          | 1                  | 1  |                               |   |                          | 404 969                       |        |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |                               | 2 103                                    | 4 947                             |   | 6 197   | 822                         | 132                |  |                               |   |                          | 14 201                        |        |
| Direct use - Utilisation directe - Uso directo  |                              |                            |   | 58                              |                               | 38 570                                   | 1 113                             |   | 35 807  | 14 445                      | 1 911              | 2 697  | 1 497                         |   |                          | 96 097                        |        |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |   |                                 |                               |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                             |                    |  |                               |   |                          |                               |        |
| Electricity - Électricité - Electrica   | 128 240                      | 14 810                     | 173   |                                 |                               |  |                                   | 2 411                                       | 5 672   | 32                          | 1                  | 0  |                               |   |                          | 143 461                       |        |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |   |                                 |                               |  |                                   |   |   | 7 104                       | 942                | 152  |                               |   |                          | 16 281                        |        |
| 2021 (In/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                               |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios   |                             |                    | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total                         |        |
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás |                    |  |                               |   |                          |                               |        |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaaria |                                 |                               |  |                                   |   | Primary energy - Énergie primaire - Energía primaaria   |                             |                    |  |                               |   |                          |                               |        |
| Production - Production - Generación  | 518 275                      | 42 369                     | 392   | 58                              |                               | 37 750                                   | 8 462                             |   | 47 947<br>1 659<br>- 477  | 3 237<br>17 035<br>- 2 762  | 2 636<br>2<br>- 26 | 1 063<br>- 1178                                  | 1 148<br>- 20                 | 29 297<br>- 91 852                      |                          | 661 126<br>50 203<br>- 96 289 |        |
| Imports - Importations - Importaciones  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |                    |  |                               |   |                          |                               |        |
| Exports - Exportations - Exportaciones  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |                    |  |                               |   |                          |                               |        |
| Stock - Stocks - Inventario (+/-)   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |                    |  |                               |   |                          |                               |        |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>518 275</b>               | <b>42 369</b>              | <b>392</b>  | <b>58</b>                       |                               | <b>37 750</b>                            | <b>8 462</b>                      | <b>1</b>                                    | <b>49 128</b>   | <b>17 510</b>               | <b>2 611</b>       | <b>- 1176</b>                                    | <b>1 128</b>                  | <b>- 62 555</b>                         |                          | <b>615 014</b>                |        |
| Differences - écarts - Diferencias  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |                    |  |                               |   |                          | <b>- 810</b>                  |        |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |   |                                 |                               |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                             |                    |  |                               |   |                          |                               |        |
| Electricity - Électricité - Electrica   | - 518 275                    | - 42 369                   | - 392   |                                 |                               | - 1 647                                  | - 4 186<br>- 3 278                | - 3 278                                     | - 2 383<br>- 8 687  | - 43<br>- 732               | - 12<br>- 143      |  |                               | 561 037<br>774                          | 4 377<br>11 803          | - 12<br>- 1 465               |        |
| CHP - Cogénération - Cogeneración   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |                    |  |                               |   |                          |                               |        |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |                    |  |                               |   |                          |                               |        |
| Charcoal - Charbon - Carbón   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |                    |  |                               |   |                          |                               |        |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |                    |  |                               |   |                          |                               |        |
| Other - Autres - Otras  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |                    |  |                               |   |                          |                               |        |
| Own use - Consomm. propre - Uso propio  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |                    |  |                               |   |                          |                               |        |
| Distribution - Distribution - Distribución  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |                    |  |                               |   |                          |                               |        |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |   |                                 |                               |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                             |                    |  |                               |   |                          |                               |        |
| Total - Total - Total   |                              |                            |   | 58                              |                               | 36 103                                   | 998                               |   | 35 684  | 15 559                      | 1 988              | 2 259  | 1 174                         | 434 823                                 | 14 144                   | 542 790                       |        |
| Industry - Industrie - Industria  |                              |                            |   |                                 |                               | 2 925                                    |                                   |   | 14 757  | 190                         | 265                | 226  | 946                           | 174 650                                 | 1 837                    | 196 794                       |        |
| Transport - Transport - Transporte  |                              |                            |   |                                 |                               | 10 180                                   |                                   |   | 15 260  | 1 215                       |                    |  |                               | 7 926                                   |                          | 24 402                        |        |
| Commerce - Commerce - Comercial   |                              |                            |   |                                 |                               | 22 998                                   |                                   |   | 668   | 77                          | 506                |  |                               | 95 540                                  | 8 544                    | 115 516                       |        |
| Residential - Résidentiel - Residencial   |                              |                            |   |                                 |                               |  |                                   |   | 20 259  | 1                           | 2 034              |  | 229                           | 147 914                                 | 8 792                    | 197 173                       |        |
| Other - Autres - Otros  |                              |                            |   | 58                              |                               |  |                                   |   | 31  | 0                           |                    |  |                               |   | 25                       | 8 906                         |        |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |   |                                 |                               |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                             |                    |  |                               |   |                          |                               |        |
| Total - Total - Total   | 401 128                      | 32 792                     | 304   | 58                              |                               | 38 418                                   | 6 553                             |   | 41 806  | 16 191                      | 2 107              | 2 259  | 1 174                         |   |                          | 542 790                       |        |
| Electricity - Électricité - Electrica   | 401 128                      | 32 792                     | 304   |                                 |                               |  |                                   |   | 515   | 82                          | 2                  | 1  |                               |   |                          | 434 823                       |        |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |                               | 2 315                                    | 5 039                             |   | 6 040   | 630                         | 119                |  |                               |   |                          | 14 144                        |        |
| Direct use - Utilisation directe - Uso directo  |                              |                            |   | 58                              |                               | 36 103                                   | 998                               |   | 35 684  | 15 559                      | 1 988              | 2 259  | 1 174                         |   |                          | 93 824                        |        |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |   |                                 |                               |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                             |                    |  |                               |   |                          |                               |        |
| Electricity - Électricité - Electrica   | 143 965                      | 11 769                     | 109   |                                 |                               |  |                                   | 2 648                                       | 5 765   | 29                          | 1                  | 0  |                               |   |                          | 156 059                       |        |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |   |                                 |                               |  |                                   |   |   | 6 910                       | 721                | 136  |                               |   |                          |                               | 16 180 |

Oman

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| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                        |                                 | Geothermal<br>Géothermique<br>Geotermica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                                 |                              | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Carbone<br>Carbon | Electricity<br>Électricité<br>Electricidad | Heat<br>Chaleur<br>Calor | Total         |
|---|------------------------------|----------------------------|--|---------------------------------|--|-----------------------------------|---|---|---------------------------------|------------------------------|--|-------------------------------|--|--------------------------|---------------|
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Bioegas - Biogaz<br>- Biogás |  |                               |  |                          |               |
| <b>Primary energy - Énergie primaire - Energía primaaria</b>  |                              |                            |  |                                 |  |                                   |   |   |                                 |                              |  |                               |  |                          |               |
| Production - Production - Generación  |                              |                            | 413  | 5 598                           |  |                                   |   |   |                                 |                              | 612  |                               |  |                          | 7 814         |
| Imports - Importations - Importaciones  |                              |                            |  |                                 |  |                                   |   |   |                                 |                              | 3 069  |                               |  |                          | 3 093         |
| Exports - Exportations - Exportaciones  |                              |                            |  |                                 |  |                                   |   |   |                                 |                              |  |                               |  |                          |               |
| Stock - Stocks - Inventario (+/-)   |                              |                            |  |                                 |  |                                   |   |   |                                 |                              |  |                               |  |                          |               |
| <b>Supply - Approvisionnement - Oferta</b>  |                              |                            | <b>413</b>                                     | <b>5 598</b>                    |  |                                   |   |   |                                 |                              | <b>3 681</b>                                     |                               |  |                          | <b>10 907</b> |
| Differences - Ecarts - Diferencias  |                              |                            |  |                                 |  |                                   |   |   |                                 |                              |  |                               |  |                          |               |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |                                 |  |                                   |   |   |                                 |                              |  |                               |  |                          |               |
| Electricity - Électricité - Electrica   |                              |                            | - 413  | - 5 598                         |  |                                   |   |   |                                 |                              |  |                               |  |                          | - 0           |
| CHP - Cogénération - Cogeneración   |                              |                            |  |                                 |  |                                   |   |   |                                 |                              |  |                               |  |                          |               |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |  |                                   |   |   |                                 |                              |  |                               |  |                          | - 301         |
| Charcoal - Charbon - Carbón   |                              |                            |  |                                 |  |                                   |   |   |                                 |                              |  |                               |  |                          |               |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |  |                                 |  |                                   |   |   |                                 |                              |  |                               |  |                          |               |
| Other - Autres - Otras  |                              |                            |  |                                 |  |                                   |   |   |                                 |                              |  |                               |  |                          |               |
| Own use - Consomm. propre - Uso propio  |                              |                            |  |                                 |  |                                   |   |   |                                 |                              |  |                               |  |                          | - 224         |
| Distribution - Distribution - Distribución  |                              |                            |  |                                 |  |                                   |   |   |                                 |                              |  |                               |  |                          | - 400         |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |                                 |  |                                   |   |   |                                 |                              |  |                               |  |                          |               |
| Total - Total - Total   |                              |                            |  |                                 | 1192                                     |                                   |   |   |                                 |                              | <b>3 131</b>                                     |                               |  |                          | <b>9 831</b>  |
| Industry - Industrie - Industria  |                              |                            |  |                                 | 1192                                     |                                   |   |   |                                 |                              |  |                               |  |                          | <b>2 067</b>  |
| Transport - Transport - Transporte  |                              |                            |  |                                 |  |                                   |   |   |                                 |                              |  |                               |  |                          |               |
| Commerce - Commerce - Comercial   |                              |                            |  |                                 |  |                                   |   |   |                                 |                              |  |                               |  |                          |               |
| Residential - Résidentiel - Residencial   |                              |                            |  |                                 |  |                                   |   |   |                                 |                              |  |                               |  |                          |               |
| Other - Autres - Otros  |                              |                            |  |                                 |  |                                   |   |   |                                 |                              |  |                               |  |                          |               |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |                                 |  |                                   |   |   |                                 |                              |  |                               |  |                          |               |
| Total - Total - Total   |                              |                            | <b>359</b>                                     | <b>4 875</b>                    |  |                                   |   |   |                                 |                              | <b>3 131</b>                                     |                               |  |                          | <b>9 831</b>  |
| Electricity - Électricité - Electrica   |                              |                            | 359  | 4 875                           |  |                                   |   |   |                                 |                              |  |                               |  |                          | <b>5 235</b>  |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |  |                                   |   |   |                                 |                              |  |                               |  |                          |               |
| Direct use - Utilisation directe - Uso directo  |                              |                            |  |                                 | 1192                                     |                                   |   |   |                                 |                              | 3 131  |                               |  |                          | <b>4 596</b>  |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |                                 |  |                                   |   |   |                                 |                              |  |                               |  |                          |               |
| Electricity - Électricité - Electrica (in/en GWh)   |                              |                            | 115  | 1 555                           |  |                                   |   |   |                                 |                              |  |                               |  |                          | <b>1 670</b>  |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |  |                                 |  |                                   |   |   |                                 |                              |  |                               |  |                          |               |
| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                        |                                 | Geothermal<br>Géothermique<br>Geotermica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                                 |                              | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Carbone<br>Carbon | Electricity<br>Électricité<br>Electricidad | Heat<br>Chaleur<br>Calor | Total         |
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Bioegas - Biogaz<br>- Biogás |  |                               |  |                          |               |
| <b>Primary energy - Énergie primaire - Energía primaaria</b>  |                              |                            |  |                                 |  |                                   |   |   |                                 |                              |  |                               |  |                          |               |
| Production - Production - Generación  |                              |                            | 428  | 2 461                           |  |                                   |   |   |                                 |                              | 583  |                               |  |                          | 4 663         |
| Imports - Importations - Importaciones  |                              |                            |  |                                 |  |                                   |   |   |                                 |                              | 0  |                               |  |                          | 508           |
| Exports - Exportations - Exportaciones  |                              |                            |  |                                 |  |                                   |   |   |                                 |                              | - 16   |                               |  |                          | - 16          |
| Stock - Stocks - Inventario (+/-)   |                              |                            |  |                                 |  |                                   |   |   |                                 |                              |  |                               |  |                          |               |
| <b>Supply - Approvisionnement - Oferta</b>  |                              |                            | <b>428</b>                                     | <b>2 461</b>                    |  |                                   |   |   |                                 |                              | <b>567</b>                                       |                               |  |                          | <b>5 155</b>  |
| Differences - Ecarts - Diferencias  |                              |                            |  |                                 |  |                                   |   |   |                                 |                              |  |                               |  |                          |               |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |                                 |  |                                   |   |   |                                 |                              |  |                               |  |                          |               |
| Electricity - Électricité - Electrica   |                              |                            | - 428  | - 2 461                         |  |                                   |   |   |                                 |                              |  |                               |  |                          |               |
| CHP - Cogénération - Cogeneración   |                              |                            |  |                                 |  |                                   |   |   |                                 |                              |  |                               |  |                          |               |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |  |                                   |   |   |                                 |                              |  |                               |  |                          |               |
| Charcoal - Charbon - Carbón   |                              |                            |  |                                 |  |                                   |   |   |                                 |                              |  |                               |  |                          |               |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |  |                                 |  |                                   |   |   |                                 |                              |  |                               |  |                          |               |
| Other - Autres - Otras  |                              |                            |  |                                 |  |                                   |   |   |                                 |                              |  |                               |  |                          |               |
| Own use - Consomm. propre - Uso propio  |                              |                            |  |                                 |  |                                   |   |   |                                 |                              |  |                               |  |                          |               |
| Distribution - Distribution - Distribución  |                              |                            |  |                                 |  |                                   |   |   |                                 |                              |  |                               |  |                          |               |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |                                 |  |                                   |   |   |                                 |                              |  |                               |  |                          |               |
| Total - Total - Total   |                              |                            |  |                                 | 1192                                     |                                   |   |   |                                 |                              | <b>31</b>  |                               |  |                          | <b>4 500</b>  |
| Industry - Industrie - Industria  |                              |                            |  |                                 | 1192                                     |                                   |   |   |                                 |                              |  |                               |  |                          | <b>1 637</b>  |
| Transport - Transport - Transporte  |                              |                            |  |                                 |  |                                   |   |   |                                 |                              |  |                               |  |                          |               |
| Commerce - Commerce - Comercial   |                              |                            |  |                                 |  |                                   |   |   |                                 |                              |  |                               |  |                          |               |
| Residential - Résidentiel - Residencial   |                              |                            |  |                                 |  |                                   |   |   |                                 |                              |  |                               |  |                          |               |
| Other - Autres - Otros  |                              |                            |  |                                 |  |                                   |   |   |                                 |                              |  |                               |  |                          |               |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |                                 |  |                                   |   |   |                                 |                              |  |                               |  |                          |               |
| Total - Total - Total   |                              |                            | <b>374</b>                                     | <b>2 152</b>                    |  |                                   |   |   |                                 |                              | <b>31</b>  |                               |  |                          | <b>4 500</b>  |
| Electricity - Électricité - Electrica   |                              |                            | 374  | 2 152                           |  |                                   |   |   |                                 |                              |  |                               |  |                          | <b>2 527</b>  |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |  |                                   |   |   |                                 |                              |  |                               |  |                          |               |
| Direct use - Utilisation directe - Uso directo  |                              |                            |  |                                 |  |                                   |   |   |                                 |                              |  |                               |  |                          | <b>1 973</b>  |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |                                 |  |                                   |   |   |                                 |                              |  |                               |  |                          |               |
| Electricity - Électricité - Electrica (in/en GWh)   |                              |                            | 119  | 684                             |  |                                   |   |   |                                 |                              |  |                               |  |                          | <b>802</b>    |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |  |                                 |  |                                   |   |   |                                 |                              |  |                               |  |                          |               |



Renewable Energy Balances: Countries P - Z

Bilans Énergétiques Renouvelables: Pays P - Z

Balances de Energía Renovable: Países P - Z

## Papua New Guinea

## Papua New Guinea

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                               |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios   |                                 |                             | Pellets/briq.<br>Granules/briq.<br>Pellets/briq.      | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total |               |               |
|---|------------------------------|----------------------------|---|---------------------------------|--|-----------------------------------|---|---|---------------------------------|-----------------------------|---|-------------------------------|---|--------------------------|-------|---------------|---------------|
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás |   |                               |   |                          |       |               |               |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaaria |                                 |  |                                   |   |   |                                 |                             | Primary energy - Énergie primaire - Energía primaaria |                               |   |                          |       |               |               |
| Production - Production - Generación  | 3 048                        |                            |   | 20                              |  | 3 456                             |   |   | 68 470                          |                             | 404   |                               | 87                                      |                          |       | 75 397        |               |
| Imports - Importations - Importaciones  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   | - 0                           |   |                          | 87    |               |               |
| Exports - Exportations - Exportaciones  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          | - 0   |               |               |
| Stock - Stocks - Inventario (+/-)   |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |       |               |               |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>3 048</b>                 |                            |   | <b>20</b>                       |  | <b>3 456</b>                      |   |   | <b>68 470</b>                   |                             | <b>404</b>  |                               | <b>87</b>                               |                          |       | <b>75 484</b> |               |
| Differences - Ecarts - Diferencias  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |       |               |               |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |   |                                 |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                                 |                             |   |                               |   |                          |       |               |               |
| Electricity - Électricité - Electrica   | - 3 048                      |                            |   | - 20                            |  | - 3 456                           |   |   | - 32                            |                             | - 404   |                               |   | 3 531                    |       | - 3 397       |               |
| CHP - Cogénération - Cogeneración   |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          | - 32  |               |               |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          | - 271 |               |               |
| Charcoal - Charbon - Carbón   |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |       |               |               |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |       |               |               |
| Other - Autres - Otras  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          | - 70  |               |               |
| Own use - Consomm. propre - Uso propio  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          | - 328 |               |               |
| Distribution - Distribution - Distribución  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |       |               |               |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |   |                                 |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                                 |                             |   |                               |   |                          |       |               |               |
| <b>Total - Total - Total</b>  |                              |                            |   |                                 |  |                                   |   | <b>67 943</b>   |                                 |                             |   | <b>311</b>                    |   | <b>3 132</b>             |       | <b>71 385</b> |               |
| Industry - Industrie - Industria  |                              |                            |   |                                 |  |                                   |   | 5 694   |                                 |                             |   |                               |   | 2 125                    |       |               | <b>7 818</b>  |
| Transport - Transport - Transporte  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |       |               |               |
| Commerce - Commerce - Comercial   |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |       |               |               |
| Residential - Résidentiel - Residencial   |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |       |               |               |
| Other - Autres - Otros  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |       |               |               |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |   |                                 |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                                 |                             |   |                               |   |                          |       |               |               |
| <b>Total - Total - Total</b>  | <b>2 997</b>                 |                            |   | <b>20</b>                       |  |                                   |   | <b>67 958</b>   |                                 | <b>99</b>                   |   | <b>311</b>                    |   | <b>3 132</b>             |       | <b>71 385</b> |               |
| Electricity - Électricité - Electrica   | 2 997                        |                            |   | 20                              |  |                                   |   | 16  |                                 | 99                          |   |                               |   |                          |       |               | <b>3 132</b>  |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |       |               |               |
| Direct use - Utilisation directe - Uso directo  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |       |               | <b>68 254</b> |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |   |                                 |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                                 |                             |   |                               |   |                          |       |               |               |
| Electricity - Électricité - Electrica (in/en GWh)   | 847                          |                            |   | 6                               |  |                                   |   | 4   |                                 | 28                          |   |                               |   |                          |       |               | <b>885</b>    |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |       |               |               |
| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                               |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios   |                                 |                             | Pellets/briq.<br>Granules/briq.<br>Pellets/briq.      | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total |               |               |
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás |   |                               |   |                          |       |               |               |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaaria |                                 |  |                                   |   |   |                                 |                             | Primary energy - Énergie primaire - Energía primaaria |                               |   |                          |       |               |               |
| Production - Production - Generación  | 3 639                        |                            |   | 19                              |  | 3 456                             |   |   | 68 470                          |                             | 404   |                               | 0                                       |                          |       | 75 987        |               |
| Imports - Importations - Importaciones  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   | - 65                          |   |                          |       |               |               |
| Exports - Exportations - Exportaciones  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |       |               |               |
| Stock - Stocks - Inventario (+/-)   |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |       |               |               |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>3 639</b>                 |                            |   | <b>19</b>                       |  | <b>3 456</b>                      |   |   | <b>68 470</b>                   |                             | <b>404</b>  |                               | <b>- 65</b>                             |                          |       | <b>75 922</b> |               |
| Differences - Ecarts - Diferencias  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |       |               |               |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |   |                                 |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                                 |                             |   |                               |   |                          |       |               |               |
| Electricity - Électricité - Electrica   | - 3 639                      |                            |   | - 19                            |  | - 3 456                           |   |   | - 32                            |                             | - 404   |                               |   | 4 120                    |       | - 3 397       |               |
| CHP - Cogénération - Cogeneración   |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          | - 32  |               |               |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |       |               |               |
| Charcoal - Charbon - Carbón   |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |       |               |               |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |       |               |               |
| Other - Autres - Otras  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |       |               |               |
| Own use - Consomm. propre - Uso propio  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |       |               |               |
| Distribution - Distribution - Distribución  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |       |               |               |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |   |                                 |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                                 |                             |   |                               |   |                          |       |               |               |
| <b>Total - Total - Total</b>  |                              |                            |   |                                 |  |                                   |   | <b>67 949</b>   |                                 |                             |   | <b>156</b>                    |   | <b>3 566</b>             |       | <b>71 672</b> |               |
| Industry - Industrie - Industria  |                              |                            |   |                                 |  |                                   |   | 5 694   |                                 |                             |   |                               |   | 2 244                    |       |               | <b>7 938</b>  |
| Transport - Transport - Transporte  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |       |               |               |
| Commerce - Commerce - Comercial   |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |       |               |               |
| Residential - Résidentiel - Residencial   |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |       |               |               |
| Other - Autres - Otros  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |       |               |               |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |   |                                 |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                                 |                             |   |                               |   |                          |       |               |               |
| <b>Total - Total - Total</b>  | <b>3 438</b>                 |                            |   | <b>18</b>                       |  |                                   |   | <b>67 965</b>   |                                 | <b>95</b>                   |   | <b>156</b>                    |   |                          |       | <b>71 672</b> |               |
| Electricity - Électricité - Electrica   | 3 438                        |                            |   | 18                              |  |                                   |   | 15  |                                 | 95                          |   |                               |   |                          |       |               | <b>3 566</b>  |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |       |               |               |
| Direct use - Utilisation directe - Uso directo  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |       |               | <b>68 106</b> |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |   |                                 |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                                 |                             |   |                               |   |                          |       |               |               |
| Electricity - Électricité - Electrica (in/en GWh)   | 1 011                        |                            |   | 5                               |  |                                   |   | 4   |                                 | 28                          |   |                               |   |                          |       |               | <b>1 049</b>  |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |       |               |               |

## Paraguay

## Paraguay

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Éolica | Solar - Solaire - Solar                        |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                                   |                             | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Carbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total   |
|---|------------------------------|----------------------------|--|---------------------------------|--|-----------------------------------|---|---|-----------------------------------|-----------------------------|--|------------------------------|---|--------------------------|---|
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás |  |                              |   |                          |   |
| <b>Primary energy - Énergie primaire - Energía primaria</b>   |                              |                            |  |                                 |  |                                   |   |   |                                   |                             |  |                              |   |                          |   |
| Production - Production - Generación  | 157 966                      | 0                          | 5  |                                 |  |                                   |   | 117 227<br>8<br>- 2   | 8 505                             | 47                          |  | - 4 747                      | - 86 236                                |                          | 283 749<br>8<br>- 90 985  |
| Imports - Importations - Importaciones  |                              |                            |  |                                 |  |                                   |   | 117 233<br>1  | 8 505<br>0                        | 47                          |  | - 4 747                      | - 86 236<br>- 876                       |                          | 192 773<br>- 875  |
| Exports - Exportations - Exportaciones  |                              |                            |  |                                 |  |                                   |   |   |                                   |                             |  |                              |   |                          |   |
| Stock - Stocks - Inventario (+/-)   |                              |                            |  |                                 |  |                                   |   |   |                                   |                             |  |                              |   |                          |   |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>157 966</b>               | <b>0</b>                   | <b>5</b>                                       |                                 |  |                                   |   |   |                                   |                             |  |                              |   |                          |   |
| <i>Differences - écarts - Diferencias</i>   |                              |                            |  |                                 |  |                                   |   |   |                                   |                             |  |                              |   |                          |   |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |                                 |  |                                   |   |   |                                   |                             |  |                              |   |                          |   |
| Electricity - Électricité - Electrica   | - 157 966                    | - 0                        | - 5  |                                 |  |                                   |   | - 1845  |                                   | - 47                        |  |                              | 158 018<br>824                          |                          | - 1 021   |
| CHP - Cogénération - Cogeneración   |                              |                            |  |                                 |  |                                   |   | - 24 429  |                                   |                             |  |                              | 12 019                                  |                          | - 12 410  |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |  |                                   |   |   |                                   |                             |  |                              |   |                          |   |
| Charcoal - Carbon - Carbón  |                              |                            |  |                                 |  |                                   |   |   |                                   |                             |  |                              |   |                          |   |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |  |                                 |  |                                   |   |   |                                   |                             |  |                              |   |                          |   |
| Other - Autres - Otras  |                              |                            |  |                                 |  |                                   |   |   |                                   |                             |  |                              |   |                          |   |
| Own use - Consomm. propre - Uso propio  |                              |                            |  |                                 |  |                                   |   |   |                                   |                             |  |                              |   |                          |   |
| Distribution - Distribution - Distribución  |                              |                            |  |                                 |  |                                   |   |   |                                   |                             |  |                              |   |                          |   |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |                                 |  |                                   |   |   |                                   |                             |  |                              |   |                          |   |
| <b>Total - Total - Total</b>  |                              |                            |  |                                 |  |                                   |   | <b>90 959</b><br>54 539<br>484<br>35 936                                    | <b>8 505</b><br>21<br>8 464<br>20 |                             |  |                              | <b>7 272</b><br>51 956<br>548<br>6 724  |                          | <b>158 692</b><br><b>63 419</b><br><b>8 464</b><br><b>21 405</b><br><b>65 404</b> |
| Industry - Industrie - Industria  |                              |                            |  |                                 |  |                                   |   |   |                                   |                             |  |                              |   |                          |   |
| Transport - Transport - Transporte  |                              |                            |  |                                 |  |                                   |   |   |                                   |                             |  |                              |   |                          |   |
| Commerce - Commerce - Comercial   |                              |                            |  |                                 |  |                                   |   |   |                                   |                             |  |                              |   |                          |   |
| Residential - Résidentiel - Residencial   |                              |                            |  |                                 |  |                                   |   |   |                                   |                             |  |                              |   |                          |   |
| Other - Autres - Otros  |                              |                            |  |                                 |  |                                   |   |   |                                   |                             |  |                              |   |                          |   |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |                                 |  |                                   |   |   |                                   |                             |  |                              |   |                          |   |
| <b>Total - Total - Total</b>  | <b>51 669</b>                | <b>0</b>                   | <b>2</b>                                       |                                 |  |                                   |   | <b>91 228</b><br>270  | <b>8 505</b><br>8 505             | <b>15</b><br>15             |  |                              | <b>7 272</b>                            |                          | <b>158 692</b><br><b>51 956</b>   |
| Electricity - Électricité - Electrica   | 51 669                       | 0                          | 2  |                                 |  |                                   |   |   |                                   |                             |  |                              |   |                          |   |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |  |                                   |   |   |                                   |                             |  |                              |   |                          |   |
| Direct use - Utilisation directe - Uso directo  |                              |                            |  |                                 |  |                                   |   |   |                                   |                             |  |                              |   |                          | <b>106 737</b>  |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |                                 |  |                                   |   |   |                                   |                             |  |                              |   |                          |   |
| Electricity - Électricité - Electrica (in/en GWh)   | 43 879                       | 0                          | 1  |                                 |  |                                   |   | 229   |                                   | 13                          |  |                              |   |                          | 44 123  |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |  |                                 |  |                                   |   |   |                                   |                             |  |                              |   |                          |   |

| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Éolica | Solar - Solaire - Solar                        |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                                   |                             | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Carbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica            | Heat<br>Chaleur<br>Calor | Total   |
|---|------------------------------|----------------------------|--|---------------------------------|--|-----------------------------------|---|---|-----------------------------------|-----------------------------|--|------------------------------|--|--------------------------|---|
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás |  |                              |  |                          |   |
| <b>Primary energy - Énergie primaire - Energía primaria</b>   |                              |                            |  |                                 |  |                                   |   |   |                                   |                             |  |                              |  |                          |   |
| Production - Production - Generación  | 146 067                      | 0                          | 3  |                                 |  |                                   |   | 119 647<br>18<br>- 3  | 9 088                             | 47                          |  | 15                           | - 4 640  | - 78 185                 | 274 852<br>33<br>- 82 828   |
| Imports - Importations - Importaciones  |                              |                            |  |                                 |  |                                   |   | 119 662<br>0  | 9 088                             | 47                          |  | - 4 625                      | - 78 185<br>- 0                                    |                          | 192 056<br>- 0  |
| Exports - Exportations - Exportaciones  |                              |                            |  |                                 |  |                                   |   |   |                                   |                             |  |                              |  |                          |   |
| Stock - Stocks - Inventario (+/-)   |                              |                            |  |                                 |  |                                   |   |   |                                   |                             |  |                              |  |                          |   |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>146 067</b>               | <b>0</b>                   | <b>3</b>                                       |                                 |  |                                   |   |   |                                   |                             |  |                              |  |                          |   |
| <i>Differences - écarts - Diferencias</i>   |                              |                            |  |                                 |  |                                   |   |   |                                   |                             |  |                              |  |                          |   |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |                                 |  |                                   |   |   |                                   |                             |  |                              |  |                          |   |
| Electricity - Électricité - Electrica   | - 146 067                    | - 0                        | - 3  |                                 |  |                                   |   | - 1845  |                                   | - 47                        |  |                              | 146 117<br>935                                     |                          | - 910   |
| CHP - Cogénération - Cogeneración   |                              |                            |  |                                 |  |                                   |   | - 24 205  |                                   |                             |  |                              | 11 909   |                          | - 12 296  |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |  |                                   |   |   |                                   |                             |  |                              |  |                          |   |
| Charcoal - Carbon - Carbón  |                              |                            |  |                                 |  |                                   |   |   |                                   |                             |  |                              |  |                          |   |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |  |                                 |  |                                   |   |   |                                   |                             |  |                              |  |                          |   |
| Other - Autres - Otras  |                              |                            |  |                                 |  |                                   |   |   |                                   |                             |  |                              |  |                          |   |
| Own use - Consomm. propre - Uso propio  |                              |                            |  |                                 |  |                                   |   |   |                                   |                             |  |                              |  |                          |   |
| Distribution - Distribution - Distribución  |                              |                            |  |                                 |  |                                   |   |   |                                   |                             |  |                              |  |                          |   |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |                                 |  |                                   |   |   |                                   |                             |  |                              |  |                          |   |
| <b>Total - Total - Total</b>  |                              |                            |  |                                 |  |                                   |   | <b>93 611</b><br>56 746<br>471<br>36 395                                    | <b>9 088</b><br>21<br>9 047<br>20 |                             |  |                              | <b>7 284</b><br>50 324<br>8 824<br>18 287<br>7 281 |                          | <b>160 307</b><br><b>65 593</b><br><b>9 047</b><br><b>18 757</b><br><b>66 909</b> |
| Industry - Industrie - Industria  |                              |                            |  |                                 |  |                                   |   |   |                                   |                             |  |                              |  |                          |   |
| Transport - Transport - Transporte  |                              |                            |  |                                 |  |                                   |   |   |                                   |                             |  |                              |  |                          |   |
| Commerce - Commerce - Comercial   |                              |                            |  |                                 |  |                                   |   |   |                                   |                             |  |                              |  |                          |   |
| Residential - Résidentiel - Residencial   |                              |                            |  |                                 |  |                                   |   |   |                                   |                             |  |                              |  |                          |   |
| Other - Autres - Otros  |                              |                            |  |                                 |  |                                   |   |   |                                   |                             |  |                              |  |                          |   |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |                                 |  |                                   |   |   |                                   |                             |  |                              |  |                          |   |
| <b>Total - Total - Total</b>  | <b>49 987</b>                | <b>0</b>                   | <b>1</b>                                       |                                 |  |                                   |   | <b>93 931</b><br>320  | <b>9 088</b><br>16                | <b>16</b>                   |  |                              | <b>7 284</b>                                       |                          | <b>160 307</b><br><b>50 324</b>   |
| Electricity - Électricité - Electrica   | 49 987                       | 0                          | 1  |                                 |  |                                   |   |   |                                   |                             |  |                              |  |                          |   |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |  |                                   |   |   |                                   |                             |  |                              |  |                          |   |
| Direct use - Utilisation directe - Uso directo  |                              |                            |  |                                 |  |                                   |   |   |                                   |                             |  |                              |  |                          | <b>109 983</b>  |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |                                 |  |                                   |   |   |                                   |                             |  |                              |  |                          |   |
| Electricity - Électricité - Electrica (in/en GWh)   | 40 574                       | 0                          | 1  |                                 |  |                                   |   | 260   |                                   | 13                          |  |                              |  |                          | <b>40 848</b>   |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |  |                                 |  |                                   |   |   |                                   |                             |  |                              |  |                          |   |

Peru

Peru

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina  | Wind<br>Éolienne<br>Eólica      | Solar - Solaire - Solar<br>Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor              | Total  |   |
|---|-------------------------------|---------------------------------|---|---------------------------------|--|-----------------------------------|---|---|--|-------------------------------|---|---------------------------------------|--|---|
|   | Solids - Solides<br>- Sólidos | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás   |                                 |  |                                   |   |   |  |                               |   |                                       |  |   |
| <b>Primary energy - Énergie primaire - Energía primaaria</b>  |                               |                                 |   |                                 |  |                                   |   |   |  |                               |   |                                       |  |   |
| Production - Production - Generación  | 106 949                       | 6 955                           | 3 170   | 1 604                           |  |                                   |   | 134 922   | 3 569<br>7 453                                   | 667                           |   | 112                                   | 64<br>- 8  |   |
| Imports - Importations - Importaciones  |                               |                                 |   |                                 |  |                                   |   |   | 840  |                               |   |                                       | 257 836<br>7 629<br>- 8<br>840                                     |   |
| Exports - Exportations - Exportaciones  |                               |                                 |   |                                 |  |                                   |   | 134 922   | 11 863   | 667                           |   | 112                                   | 56<br>- 76   |   |
| Stock - Stocks - Inventario (+/-)   |                               |                                 |   | 1 604<br>- 0                    |  |                                   |   |   |  |                               |   |                                       | 266 297<br>- 75  |   |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>106 949</b>                | <b>6 955</b>                    | <b>3 170</b>  | <b>1 604</b><br><b>- 0</b>      |  |                                   |   |   |  |                               |   |                                       |  |   |
| <b>Differences - écarts - Diferencias</b>   |                               |                                 |   |                                 |  |                                   |   |   |  |                               |   |                                       |  |   |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                               |                                 |   |                                 |  |                                   |   |   |  |                               |   |                                       |  |   |
| Electricity - Électricité - Electrica   | - 106 949                     | - 6 955                         | - 3 170   |                                 |  |                                   |   | - 6 295<br>- 6 064  |  | - 667                         |   |                                       | - 5 894<br>- 5 024   |   |
| CHP - Cogénération - Cogeneración   |                               |                                 |   |                                 |  |                                   |   |   |  |                               |   |                                       |  |   |
| Heat - Chaleur - Calor  |                               |                                 |   |                                 |  |                                   |   | - 13 058  |  |                               |   |                                       | - 7 835  |   |
| Charcoal - Charbon - Carbon   |                               |                                 |   |                                 |  |                                   |   |   |  |                               |   |                                       |  |   |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                               |                                 |   |                                 |  |                                   |   |   |  |                               |   |                                       |  |   |
| Other - Autres - Otras  |                               |                                 |   |                                 |  |                                   |   |   |  |                               |   |                                       |  |   |
| Own use - Consomm. propre - Uso propio  |                               |                                 |   |                                 |  |                                   |   |   |  |                               |   |                                       |  |   |
| Distribution - Distribution - Distribución  |                               |                                 |   |                                 |  |                                   |   |   |  |                               |   |                                       |  |   |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                               |                                 |   |                                 |  |                                   |   |   |  |                               |   |                                       |  |   |
| <b>Total - Total - Total</b>  |                               |                                 |   | 1 604<br>3                      |  |                                   |   | <b>109 506</b><br>12 973<br>0<br>11 755                                     | <b>11 863</b><br>1                               |                               |   | <b>5 336</b><br>1104<br>27 559<br>161 | <b>104 641</b><br>1001<br>18 537<br>3 228<br>21 278<br>3<br>37 105 | <b>232 949</b><br>41 639<br>11 917<br>23 967<br>118 121<br>37 305 |
| Industry - Industrie - Industria  |                               |                                 |   |                                 |  |                                   |   |   |  |                               |   |                                       |  |   |
| Transport - Transport - Transporte  |                               |                                 |   |                                 |  |                                   |   |   |  |                               |   |                                       |  |   |
| Commerce - Commerce - Comercial   |                               |                                 |   |                                 |  |                                   |   |   |  |                               |   |                                       |  |   |
| Residential - Résidentiel - Residencial   |                               |                                 |   |                                 |  |                                   |   |   |  |                               |   |                                       |  |   |
| Other - Autres - Otros  |                               |                                 |   |                                 |  |                                   |   |   |  |                               |   |                                       |  |   |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                               |                                 |   |                                 |  |                                   |   |   |  |                               |   |                                       |  |   |
| <b>Total - Total - Total</b>  | <b>93 900</b>                 | <b>6 106</b>                    | <b>2 783</b>  | <b>1 604</b>                    |  |                                   |   | <b>111 155</b><br>1 649   | <b>11 863</b><br>109 506                         | <b>202</b><br>11 863          |   | <b>5 336</b><br>5 336                 | <b>232 949</b><br>104 641  |   |
| Electricity - Électricité - Electrica   | 93 900                        | 6 106                           | 2 783   | 1 604                           |  |                                   |   |   |  |                               |   |                                       |  |   |
| Heat - Chaleur - Calor  |                               |                                 |   |                                 |  |                                   |   |   |  |                               |   |                                       |  |   |
| Direct use - Utilisation directe - Uso directo  |                               |                                 |   |                                 |  |                                   |   |   |  |                               |   |                                       |  |   |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                               |                                 |   |                                 |  |                                   |   |   |  |                               |   |                                       |  |   |
| Electricity - Électricité - Electrica (in/en GWh)   | 29 708                        | 1 932                           | 880   |                                 |  |                                   |   | 522   |  | 64                            |   |                                       | 33 106   |   |
| Heat - Chaleur - Calor (in/en TJ)   |                               |                                 |   |                                 |  |                                   |   |   |  |                               |   |                                       |  |   |

| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina  | Wind<br>Éolienne<br>Eólica      | Solar - Solaire - Solar<br>Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor             | Total  |   |
|---|-------------------------------|---------------------------------|---|---------------------------------|--|-----------------------------------|---|---|--|-------------------------------|---|--------------------------------------|--|---|
|   | Solids - Solides<br>- Sólidos | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás   |                                 |  |                                   |   |   |  |                               |   |                                      |  |   |
| <b>Primary energy - Énergie primaire - Energía primaaria</b>  |                               |                                 |   |                                 |  |                                   |   |   |  |                               |   |                                      |  |   |
| Production - Production - Generación  | 114 804                       | 6 561                           | 3 100   | 1 583                           |  |                                   |   | 141 380   | 5 293<br>8 280                                   | 700                           |   | 6                                    | 95<br>- 9  |   |
| Imports - Importations - Importaciones  |                               |                                 |   |                                 |  |                                   |   |   | 1 862  |                               |   |                                      | 273 422<br>8 381<br>- 9  |   |
| Exports - Exportations - Exportaciones  |                               |                                 |   |                                 |  |                                   |   | 141 380   | <b>15 435</b><br>- 0                             | <b>700</b>                    |   | 6                                    | 87<br>- 5 054  |   |
| Stock - Stocks - Inventario (+/-)   |                               |                                 |   | 1 583<br>- 0                    |  |                                   |   |   |  |                               |   |                                      | 283 656<br>- 5 054   |   |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>114 804</b>                | <b>6 561</b>                    | <b>3 100</b>  | <b>1 583</b><br><b>- 0</b>      |  |                                   |   |   |  |                               |   |                                      |  |   |
| <b>Differences - écarts - Diferencias</b>   |                               |                                 |   |                                 |  |                                   |   |   |  |                               |   |                                      |  |   |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                               |                                 |   |                                 |  |                                   |   |   |  |                               |   |                                      |  |   |
| Electricity - Électricité - Electrica   | - 114 804                     | - 6 561                         | - 3 100   |                                 |  |                                   |   | - 6 582<br>- 5 199  |  | - 700                         |   |                                      | - 6 307<br>- 4 039   |   |
| CHP - Cogénération - Cogeneración   |                               |                                 |   |                                 |  |                                   |   |   |  |                               |   |                                      |  |   |
| Heat - Chaleur - Calor  |                               |                                 |   |                                 |  |                                   |   | - 13 953  |  |                               |   |                                      | - 8 372  |   |
| Charcoal - Charbon - Carbon   |                               |                                 |   |                                 |  |                                   |   |   |  |                               |   |                                      |  |   |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                               |                                 |   |                                 |  |                                   |   |   |  |                               |   |                                      |  |   |
| Other - Autres - Otras  |                               |                                 |   |                                 |  |                                   |   |   |  |                               |   |                                      |  |   |
| Own use - Consomm. propre - Uso propio  |                               |                                 |   |                                 |  |                                   |   |   |  |                               |   |                                      |  |   |
| Distribution - Distribution - Distribución  |                               |                                 |   |                                 |  |                                   |   |   |  |                               |   |                                      |  |   |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                               |                                 |   |                                 |  |                                   |   |   |  |                               |   |                                      |  |   |
| <b>Total - Total - Total</b>  |                               |                                 |   | 1 583<br>3                      |  |                                   |   | <b>115 647</b><br>12 476<br>0   | <b>15 435</b><br>15 201<br>2                     |                               |   | <b>5 587</b><br>933<br>27 577<br>172 | <b>110 489</b><br>1123<br>19 025<br>3 530<br>23 501<br>2<br>40 214 | <b>248 741</b><br>40 988<br>15 373<br>25 022<br>126 818<br>40 540 |
| Industry - Industrie - Industria  |                               |                                 |   |                                 |  |                                   |   |   |  |                               |   |                                      |  |   |
| Transport - Transport - Transporte  |                               |                                 |   |                                 |  |                                   |   |   |  |                               |   |                                      |  |   |
| Commerce - Commerce - Comercial   |                               |                                 |   |                                 |  |                                   |   |   |  |                               |   |                                      |  |   |
| Residential - Résidentiel - Residencial   |                               |                                 |   |                                 |  |                                   |   |   |  |                               |   |                                      |  |   |
| Other - Autres - Otros  |                               |                                 |   |                                 |  |                                   |   |   |  |                               |   |                                      |  |   |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                               |                                 |   |                                 |  |                                   |   |   |  |                               |   |                                      |  |   |
| <b>Total - Total - Total</b>  | <b>100 193</b>                | <b>5 726</b>                    | <b>2 706</b>  | <b>1 583</b>                    |  |                                   |   | <b>117 307</b><br>1 660   | <b>15 435</b><br>115 647                         | <b>204</b><br>15 435          |   | <b>5 587</b><br>5 587                | <b>248 741</b><br>110 489  |   |
| Electricity - Électricité - Electrica   | 100 193                       | 5 726                           | 2 706   | 1 583                           |  |                                   |   |   |  |                               |   |                                      |  |   |
| Heat - Chaleur - Calor  |                               |                                 |   |                                 |  |                                   |   |   |  |                               |   |                                      |  |   |
| Direct use - Utilisation directe - Uso directo  |                               |                                 |   |                                 |  |                                   |   |   |  |                               |   |                                      |  |   |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                               |                                 |   |                                 |  |                                   |   |   |  |                               |   |                                      |  |   |
| Electricity - Électricité - Electrica (in/en GWh)   | 31 890                        | 1 823                           | 861   |                                 |  |                                   |   | 528   |  | 65                            |   |                                      | 35 167   |   |
| Heat - Chaleur - Calor (in/en TJ)   |                               |                                 |   |                                 |  |                                   |   |   |  |                               |   |                                      |  |   |

# Poland

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                              |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primaires -<br>Biocombustibles primarios |   |                       | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Carbon<br>Carbon | Electricity<br>Électricité<br>Eléctrica        | Heat<br>Chaleur<br>Calor                    | Total   |  |
|---|------------------------------|----------------------------|--|---------------------------------|-------------------------------|--|-----------------------------------|---|---|---|-----------------------|--|------------------------------|--|---|---|--|
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica       | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Liquídos   | Biogas - Biogaz<br>- Biogás             |                       |  |                              |  |   |   |  |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaria |                                 |                               |  |                                   |   | Primary energy - Énergie primaire - Energía primaria                        |   |                       |  |                              |  |   |   |  |
| Production - Production - Generación  | 7 085                        | 71 206                     | 29 915   | 3 801                           | 1 318                         | 21 757                                   | 32 134                            |   | 335 835<br>11 761<br>- 8 393  | 45 276<br>19 543<br>- 13 340<br>- 1 006 | 14 765                |  |                              | 11 510<br>- 12 777                             |   | 563 092<br>48 253<br>- 40 366<br>- 1 006          |  |
| Imports - Importations - Importaciones  |                              |                            |  |                                 |                               |  |                                   |   | 339 203   | 50 474                                  | 14 765                | - 417  |                              | - 1267<br>- 236                                |   | 569 974<br>- 236                                  |  |
| Exports - Exportations - Exportaciones  |                              |                            |  |                                 |                               |  |                                   |   |   |   |                       |  |                              |  |   |   |  |
| Stock - Stocks - Inventario (+/-)   |                              |                            |  |                                 |                               |  |                                   |   |   |   |                       |  |                              |  |   |   |  |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>7 085</b>                 | <b>71 206</b>              | <b>29 915</b>  | <b>3 801</b>                    | <b>1 318</b>                  | <b>21 757</b>                            | <b>32 134</b>                     |   |   |   |                       |  |                              |  |   |   |  |
| Differences - Ecarts - Diferencias  |                              |                            |  |                                 |                               |  |                                   |   |   |   |                       |  |                              |  |   |   |  |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |                                 |                               |  |                                   |   |   |   |                       |  |                              |  |   |   |  |
| Electricity - Électricité - Electrica   | - 7 085                      | - 71 206                   | - 29 915   |                                 |                               |  |                                   | - 3   | - 14 394<br>- 47  | - 11 664<br>- 40 570<br>- 7 058         | - 32<br>- 9           | - 10 246<br>- 93                                 |                              |  | 112 606<br>23 197                           | 17 197<br>6 157                                   | - 7 265<br>- 24 849<br>- 1 053           |
| CHP - Cogénération - Cogeneración   |                              |                            |  |                                 |                               |  |                                   |   |   |   |                       |  |                              |  |   |   |  |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |                               |  |                                   |   |   |   |                       |  |                              |  |   |   |  |
| Charcoal - Charbon - Carbón   |                              |                            |  |                                 |                               |  |                                   |   |   |   |                       |  |                              |  |   | 0   |  |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |  |                                 |                               |  |                                   |   |   |   |                       |  |                              |  |   | - 1   |  |
| Other - Autres - Otras  |                              |                            |  |                                 |                               |  |                                   |   |   |   |                       |  |                              |  |   | - 22 779  |  |
| Own use - Consomm. propre - Uso propio  |                              |                            |  |                                 |                               |  |                                   |   |   |   |                       |  |                              |  |   | 8 831   |  |
| Distribution - Distribution - Distribución  |                              |                            |  |                                 |                               |  |                                   |   |   |   |                       |  |                              |  |   |   |  |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |                                 |                               |  |                                   |   |   |   |                       |  |                              |  |   |   |  |
| Total - Total - Total   |                              |                            |  | 3 801                           | 1 318                         | 21 754                                   | 17 693                            |   | 257 047<br>48 371<br>0<br>50 385<br>47                                      | 50 432<br>897<br>2 941                  | 4 426<br>897<br>3 364 | 22 425   |                              | 106 863<br>40 174<br>2 646<br>39 967<br>19 061 | 19 242<br>2 915<br>5 246<br>3 823<br>12 440 | 505 000<br>110 039<br>53 030<br>55 174<br>265 491 |  |
| Industry - Industrie - Industria  |                              |                            |  |                                 |                               |  |                                   |   |   |   |                       |  |                              |  |   | 21 265  |  |
| Transport - Transport - Transporte  |                              |                            |  | 231                             | 329                           | 1107                                     | 11                                |   | 3 353<br>186 104<br>19 219  |   |                       |  |                              |  |   |   |  |
| Commerce - Commerce - Comercial   |                              |                            |  | 3 570                           | 988                           | 20 647                                   |                                   |   |   |   |                       |  |                              |  |   |   |  |
| Residential - Résidentiel - Residencial   |                              |                            |  |                                 |                               |  |                                   |   |   |   |                       |  |                              |  |   |   |  |
| Other - Autres - Otros  |                              |                            |  |                                 |                               |  |                                   |   |   |   |                       |  |                              |  |   |   |  |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |                                 |                               |  |                                   |   |   |   |                       |  |                              |  |   |   |  |
| Total - Total - Total   | 5 576                        | 56 032                     | 23 540   | 3 801                           | 1 318                         | 21 758                                   | 19 844                            |   | 291 034   | 50 539                                  | 9 133                 | 22 425   |                              |  |   | 505 000   |  |
| Electricity - Électricité - Electrica   | 5 576                        | 56 032                     | 23 540   |                                 |                               |  |                                   |   | 16 810<br>12 979  | 101<br>757                              | 3 949<br>4 426        |  |                              |  |   | 106 863   |  |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |                               |  |                                   |   | 257 047   | 50 432                                  | 4 426                 | 22 425   |                              |  |   | 19 242  |  |
| Direct use - Utilisation directe - Uso directo  |                              |                            |  | 3 801                           | 1 318                         | 21 754                                   | 17 693                            |   |   |   |                       |  |                              |  |   | 378 895   |  |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |                                 |                               |  |                                   |   |   |   |                       |  |                              |  |   |   |  |
| Electricity - Électricité - Electrica (in/en GWh)   | 1 968                        | 19 780                     | 8 310  |                                 |                               |  |                                   | 5   | 302<br>1 574  | 5 934<br>20 847                         | 36<br>8               | 1 394<br>919                                     |                              |  |   | 37 723  |  |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |  |                                 |                               |  |                                   |   |   |   |                       |  |                              |  |   | 23 353  |  |
| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                              |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primaires -<br>Biocombustibles primarios |   |                       | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Carbon<br>Carbon | Electricity<br>Électricité<br>Eléctrica        | Heat<br>Chaleur<br>Calor                    | Total   |  |
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica       | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Liquídos   | Biogas - Biogaz<br>- Biogás             |                       |  |                              |  |   |   |  |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaria |                                 |                               |  |                                   |   | Primary energy - Énergie primaire - Energía primaria                        |   |                       |  |                              |  |   |   |  |
| Production - Production - Generación  | 8 421                        | 58 441                     | 14 164   | 3 566                           | 1 189                         | 15 496                                   | 38 259                            |   | 338 532<br>21 322<br>- 7 772  | 43 413<br>18 398<br>- 13 014<br>- 1 829 | 13 372                |  | 3 953<br>- 8 236             |  | 9 259<br>- 8 715                            |   | 534 853<br>52 933<br>- 37 737<br>- 1 829 |
| Imports - Importations - Importaciones  |                              |                            |  |                                 |                               |  |                                   |   |   |   |                       |  |                              |  |   |   |  |
| Exports - Exportations - Exportaciones  |                              |                            |  |                                 |                               |  |                                   |   |   |   |                       |  |                              |  |   |   |  |
| Stock - Stocks - Inventario (+/-)   |                              |                            |  |                                 |                               |  |                                   |   |   |   |                       |  |                              |  |   |   |  |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>8 421</b>                 | <b>58 441</b>              | <b>14 164</b>  | <b>3 566</b>                    | <b>1 189</b>                  | <b>15 496</b>                            | <b>38 259</b>                     |   | <b>352 082</b>  | <b>46 968</b>                           | <b>13 372</b>         | <b>- 4 283</b>                                   |                              | <b>544</b><br><b>- 21</b>                      |   | <b>548 220</b><br><b>- 21</b>                     |  |
| Differences - Ecarts - Diferencias  |                              |                            |  |                                 |                               |  |                                   |   |   |   |                       |  |                              |  |   |   |  |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |                                 |                               |  |                                   |   |   |   |                       |  |                              |  |   |   |  |
| Electricity - Électricité - Electrica   | - 8 421                      | - 58 441                   | - 14 164   |                                 |                               |  |                                   | - 4   | - 16 526<br>- 33  | - 16 197<br>- 39 420<br>- 7 341         | - 36<br>- 5           | - 9 655<br>- 47                                  |                              |  | 87 191<br>22 976                            | 17 222<br>6 289                                   | - 10 032<br>- 25 439<br>- 1 141          |
| CHP - Cogénération - Cogeneración   |                              |                            |  |                                 |                               |  |                                   |   |   |   |                       |  |                              |  |   |   |  |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |                               |  |                                   |   |   |   |                       |  |                              |  |   |   |  |
| Charcoal - Charbon - Carbón   |                              |                            |  |                                 |                               |  |                                   |   |   |   |                       |  |                              |  |   | 0   |  |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |  |                                 |                               |  |                                   |   |   |   |                       |  |                              |  |   | - 1   |  |
| Other - Autres - Otras  |                              |                            |  |                                 |                               |  |                                   |   |   |   |                       |  |                              |  |   | - 19 050  |  |
| Own use - Consomm. propre - Uso propio  |                              |                            |  |                                 |                               |  |                                   |   |   |   |                       |  |                              |  |   | - 8 005   |  |
| Distribution - Distribution - Distribución  |                              |                            |  |                                 |                               |  |                                   |   |   |   |                       |  |                              |  |   |   |  |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |                                 |                               |  |                                   |   |   |   |                       |  |                              |  |   |   |  |
| Total - Total - Total   |                              |                            |  | 3 566                           | 1 189                         | 15 492                                   | 21 701                            |   | 267 375<br>44 819<br>0<br>46 879<br>47                                      | 46 927<br>776<br>2 546                  | 3 670<br>776<br>2 617 | 17 447   |                              | 88 106<br>34 526<br>2 080<br>31 618<br>18 757  | 19 118<br>2 939<br>3 120<br>12 994<br>1 125 | 484 591<br>104 751<br>48 959<br>47 234<br>258 215 |  |
| Industry - Industrie - Industria  |                              |                            |  |                                 |                               |  |                                   |   |   |   |                       |  |                              |  |   |   |  |
| Transport - Transport - Transporte  |                              |                            |  | 228                             | 297                           | 1 013                                    | 10                                |   | 5 738<br>192 925<br>23 893  |   |                       |  |                              |  |   |   |  |
| Commerce - Commerce - Comercial   |                              |                            |  | 3 338                           | 892                           | 14 479                                   |                                   |   |   |   |                       |  |                              |  |   |   |  |
| Residential - Résidentiel - Residencial   |                              |                            |  |                                 |                               |  |                                   |   |   |   |                       |  |                              |  |   |   |  |
| Other - Autres - Otros  |                              |                            |  |                                 |                               |  |                                   |   |   |   |                       |  |                              |  |   |   |  |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |                                 |                               |  |                                   |   |   |   |                       |  |                              |  |   |   |  |
| Total - Total - Total   | 6 735                        | 46 738                     | 11 328   | 3 566                           | 1 189                         | 15 496                                   | 27 197                            |   | 299 647   | 47 033                                  | 8 214                 | 17 447   |                              |  |   | 484 591   |  |
| Electricity - Électricité - Electrica   | 6 735                        | 46 738                     | 11 328   |                                 |                               |  |                                   |   | 4 196<br>1 300  | 15 243<br>17 030                        | 102<br>4              | 3 764<br>780                                     |                              |  |   | 88 106  |  |
| Heat - Chaleur - Calor  |                              |                            |  | 3 566                           | 1 189                         | 15 492                                   | 27 197                            |   | 267 375   | 46 927                                  | 3 670                 | 17 447   |                              |  |   | 19 118  |  |
| Direct use - Utilisation directe - Uso directo  |                              |                            |  |                                 |                               |  |                                   |   |   |   |                       |  |                              |  |   | 377 367   |  |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |                                 |                               |  |                                   |   |   |   |                       |  |                              |  |   |   |  |
| Electricity - Électricité - Electrica (in/en GWh)   | 2 339                        | 16 234                     | 3 934  |                                 |                               |  |                                   | 5   | 1 599   | 5 294<br>20 943                         | 36<br>5               | 1 307<br>959                                     |                              |  |   | 30 602  |  |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |  |                                 |                               |  |                                   |   |   |   |                       |  |                              |  |   | 23 511  |  |

# Portugal

# Portugal

| 2022 (in/en TJ)                                   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar   |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |   |                             | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Carbon<br>Carbon | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total                                  |                              |
|---|------------------------------|----------------------------|---|---------------------------------|--|-----------------------------------|---|---|---|-----------------------------|--|------------------------------|---|--------------------------|--|------------------------------|
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica  | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos           | Biogas - Biogaz<br>- Biogás |  |                              |   |                          |  |                              |
|   |                              |                            |   |                                 |  |                                   |   |   |   |                             |  |                              |   |                          |  |                              |
|   |                              |                            | <b>Primary energy - Énergie primaire - Energía primaria</b>   |                                 |  |                                   |   |   |   |                             |  |                              |   |                          |  |                              |
| Production - Production - Generación              | 23 530                       | 47 678                     | 12 669  | 4 628                           | 7 497                                    | 35 610                            | 5 717                                       | 123 749<br>3 040  | 11 466<br>5 187<br>- 2 030<br>- 194       | 3 626                       |  | 926                          | 25 075<br>- 6 233                       |                          | 276 169<br>34 228<br>- 18 439<br>- 194 |                              |
| Imports - Importations - Importaciones            |                              |                            |   |                                 |  |                                   |   |   |   |                             | - 10 176   |                              |   |                          |  | 291 763<br>457               |
| Exports - Exportations - Exportaciones            |                              |                            |   |                                 |  |                                   |   |   |   |                             |  |                              |   |                          |  | - 18 439                     |
| Stock - Stocks - Inventario (+/-)                 |                              |                            |   |                                 |  |                                   |   |   |   |                             |  |                              |   |                          |  | - 194                        |
| <b>Supply - Approvisionnement - Oferta</b>        | <b>23 530</b>                | <b>47 678</b>              | <b>12 669</b>   | <b>4 628</b>                    | <b>7 497</b>                             | <b>35 610</b>                     | <b>5 717</b>                                | <b>126 789</b><br><b>459</b>  | <b>14 429</b>                             | <b>3 626</b>                | <b>- 10 176</b>                                  | <b>926</b>                   | <b>18 842</b><br><b>- 2</b>             |                          |  | <b>291 763</b><br><b>457</b> |
| Differences - Ecarts - Diferencias                |                              |                            |   |                                 |  |                                   |   |   |   |                             |  |                              |   |                          |  |                              |
|   |                              |                            | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                                 |  |                                   |   |   |   |                             |  |                              |   |                          |  |                              |
| Electricity - Électricité - Electrica             | - 23 530                     | - 47 678                   | - 12 669  |                                 | - 7 422                                  |                                   |   | - 5 082   | - 19 000<br>- 21 377<br>- 649<br>- 12 013 | - 49<br>- 2862<br>- 243     |  |                              | 91 852<br>7 532                         |                          | - 26 440<br>- 14 088                   |                              |
| CHP - Cogénération - Cogeneración                 |                              |                            |   |                                 |  |                                   |   |   |   |                             |  |                              |   |                          |  | - 389                        |
| Heat - Chaleur - Calor                            |                              |                            |   |                                 |  |                                   |   |   |   |                             |  |                              |   |                          |  |                              |
| Charcoal - Charbon - Carbón                       |                              |                            |   |                                 |  |                                   |   |   |   |                             |  |                              |   |                          |  |                              |
| Pellets/briq. - Granules/briq. - Pellets/briq.    |                              |                            |   |                                 |  |                                   |   |   |   |                             |  |                              |   |                          |  |                              |
| Other - Autres - Otras                            |                              |                            |   |                                 |  |                                   |   |   |   |                             |  |                              |   |                          |  |                              |
| Own use - Consomm. propre - Uso propio            |                              |                            |   |                                 |  |                                   |   |   |   |                             |  |                              |   |                          |  |                              |
| Distribution - Distribution - Distribución        |                              |                            |   |                                 |  |                                   |   |   |   |                             |  |                              |   |                          |  |                              |
|   |                              |                            | <b>Final consumption - Consommation finale - Consumo final</b>  |                                 |  |                                   |   |   |   |                             |  |                              |   |                          |  |                              |
| Total - Total - Total                             |                              |                            |   | 4 628                           | 75                                       | 35 610                            | 635   | 73 750<br>42 547  | 14 839<br>477<br>14 282<br>0              | 520                         | 1 837<br>184                                     | 1 186<br>3                   | 99 091<br>34 644<br>1 014               |                          | 232 170<br>79 008                      |                              |
| Industry - Industrie - Industria                  |                              |                            |   |                                 |  |                                   |   |   |   |                             |  |                              |   |                          |  | 15 296                       |
| Transport - Transport - Transporte                |                              |                            |   | 1 930                           | 75                                       | 22 967                            |   | 597<br>30 606   |   |                             | 18   | 622                          | 33 034                                  |                          | 59 244                                 |                              |
| Commerce - Commerce - Comercial                   |                              |                            |   | 2 697                           |  | 12 642                            |   | 80  |   |                             | 1 540<br>561                                     | 28 312                       | 2 087                                   |                          | 76 359                                 |                              |
| Residential - Résidentiel - Residencial           |                              |                            |   |                                 |  |                                   |   |   |   |                             |  |                              |   |                          |  | 2 263                        |
| Other - Autres - Otros                            |                              |                            |   |                                 |  |                                   |   |   |   |                             |  |                              |   |                          |  |                              |
|   |                              |                            | <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                                 |  |                                   |   |   |   |                             |  |                              |   |                          |  |                              |
| <b>Total - Total - Total</b>                      | <b>23 460</b>                | <b>47 538</b>              | <b>12 631</b>   | <b>4 628</b>                    | <b>773</b>                               | <b>35 610</b>                     | <b>1 744</b>                                | <b>86 470</b>   | <b>14 839</b>                             | <b>1 453</b>                | <b>1 837</b>                                     | <b>1 186</b>                 |   |                          |  | <b>232 170</b>               |
| Electricity - Électricité - Electrica             | 23 460                       | 47 538                     | 12 631  |                                 | 698                                      |                                   | 1 110                                       |   | 12 721                                    |                             | 932  |                              |   |                          |  | <b>99 091</b>                |
| Heat - Chaleur - Calor                            |                              |                            |   |                                 | 4 628                                    | 75                                | 35 610                                      | 635   | 73 750                                    | 14 839                      | 520  | 1 837                        | 1 186                                   |                          |  | <b>133 079</b>               |
|   |                              |                            | <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                                 |  |                                   |   |   |   |                             |  |                              |   |                          |  |                              |
| Electricity - Électricité - Electrica (in/en GWh) | 6 536                        | 13 244                     | 3 519   |                                 |  | 195                               |   | 309   | 3 544                                     |                             | 260  |                              |   |                          |  | 27 606                       |
| Heat - Chaleur - Calor (in/en TJ)                 |                              |                            |   |                                 |  |                                   |   |   |   |                             |  |                              |   |                          |  |                              |
| 2021 (in/en TJ)                                   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar   |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |   |                             | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Carbon<br>Carbon | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total                                  |                              |
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica  | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos           | Biogas - Biogaz<br>- Biogás |  |                              |   |                          |  |                              |
|   |                              |                            |   |                                 |  |                                   |   |   |   |                             |  |                              |   |                          |  |                              |
|   |                              |                            | <b>Primary energy - Énergie primaire - Energía primaria</b>   |                                 |  |                                   |   |   |   |                             |  |                              |   |                          |  |                              |
| Production - Production - Generación              | 42 867                       | 47 576                     | 8 054   | 4 416                           | 6 868                                    | 31 601                            | 5 760                                       | 121 550<br>2 697  | 11 935<br>4 830<br>- 2 768<br>79          | 3 652                       |  | 755                          | 21 259<br>- 10 672                      |                          | 284 278<br>29 540                      |                              |
| Imports - Importations - Importaciones            |                              |                            |   |                                 |  |                                   |   |   |   |                             | - 11 999   |                              |   |                          |  | - 25 439                     |
| Exports - Exportations - Exportaciones            |                              |                            |   |                                 |  |                                   |   |   |   |                             |  |                              |   |                          |  | 79                           |
| Stock - Stocks - Inventario (+/-)                 |                              |                            |   |                                 |  |                                   |   |   |   |                             |  |                              |   |                          |  | 288 458                      |
| <b>Supply - Approvisionnement - Oferta</b>        | <b>42 867</b>                | <b>47 576</b>              | <b>8 054</b>  | <b>4 416</b>                    | <b>6 868</b>                             | <b>31 601</b>                     | <b>5 760</b>                                | <b>124 246</b><br><b>879</b>  | <b>14 075</b><br><b>879</b>               | <b>3 652</b>                | <b>- 11 999</b>                                  | <b>755</b>                   | <b>10 587</b><br><b>- 163</b>           |                          |  | <b>717</b>                   |
| Differences - Ecarts - Diferencias                |                              |                            |   |                                 |  |                                   |   |   |   |                             |  |                              |   |                          |  |                              |
|   |                              |                            | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                                 |  |                                   |   |   |   |                             |  |                              |   |                          |  |                              |
| Electricity - Électricité - Electrica             | - 42 867                     | - 47 576                   | - 8 054   |                                 | - 6 811                                  |                                   |   | - 4 966   | - 17 406<br>- 20 949<br>- 738<br>- 13 950 | - 52<br>- 212               |  |                              | 106 116<br>7 433                        |                          | - 24 753<br>- 13 728                   |                              |
| CHP - Cogénération - Cogeneración                 |                              |                            |   |                                 |  |                                   |   |   |   |                             |  |                              |   |                          |  | - 443                        |
| Heat - Chaleur - Calor                            |                              |                            |   |                                 |  |                                   |   |   |   |                             |  |                              |   |                          |  |                              |
| Charcoal - Charbon - Carbón                       |                              |                            |   |                                 |  |                                   |   |   |   |                             |  |                              |   |                          |  |                              |
| Pellets/briq. - Granules/briq. - Pellets/briq.    |                              |                            |   |                                 |  |                                   |   |   |   |                             |  |                              |   |                          |  |                              |
| Other - Autres - Otras                            |                              |                            |   |                                 |  |                                   |   |   |   |                             |  |                              |   |                          |  |                              |
| Own use - Consomm. propre - Uso propio            |                              |                            |   |                                 |  |                                   |   |   |   |                             |  |                              |   |                          |  |                              |
| Distribution - Distribution - Distribución        |                              |                            |   |                                 |  |                                   |   |   |   |                             |  |                              |   |                          |  |                              |
|   |                              |                            | <b>Final consumption - Consommation finale - Consumo final</b>  |                                 |  |                                   |   |   |   |                             |  |                              |   |                          |  |                              |
| Total - Total - Total                             |                              |                            |   | 4 416                           | 57                                       | 31 601                            | 794   | 71 203<br>40 071  | 14 902<br>514<br>14 245<br>63<br>81       | 303<br>195                  | 1 951  | 1 050                        | 105 400                                 |                          | 231 678<br>78 919                      |                              |
| Industry - Industrie - Industria                  |                              |                            |   |                                 |  |                                   |   |   |   |                             |  |                              |   |                          |  | 15 296                       |
| Transport - Transport - Transporte                |                              |                            |   | 1 766                           | 57                                       | 20 382                            |   | 494<br>30 639   |   |                             | 20   | 486                          | 32 777                                  |                          | 56 044                                 |                              |
| Commerce - Commerce - Comercial                   |                              |                            |   | 2 650                           |  | 11 219                            |   |   |   |                             | 1 511  | 561                          | 31 802                                  |                          | 78 382                                 |                              |
| Residential - Résidentiel - Residencial           |                              |                            |   |                                 |  |                                   |   |   |   |                             |  | 226                          | 2 731                                   |                          |  | 3 038                        |
| Other - Autres - Otros                            |                              |                            |   |                                 |  |                                   |   |   |   |                             |  |                              |   |                          |  |                              |
|   |                              |                            | <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                                 |  |                                   |   |   |   |                             |  |                              |   |                          |  |                              |
| <b>Total - Total - Total</b>                      | <b>39 791</b>                | <b>44 162</b>              | <b>7 476</b>  | <b>4 416</b>                    | <b>654</b>                               | <b>31 601</b>                     | <b>1 942</b>                                | <b>82 537</b>   | <b>14 902</b>                             | <b>1 197</b>                | <b>1 951</b>                                     | <b>1 050</b>                 |   |                          |  | <b>231 678</b>               |
| Electricity - Électricité - Electrica             | 39 791                       | 44 162                     | 7 476   |                                 | 597                                      |                                   | 1 147                                       | 11 333  |   | 894                         |  | 1 050                        |   |                          |  | <b>105 400</b>               |
| Heat - Chaleur - Calor                            |                              |                            |   |                                 | 4 416                                    | 57                                | 31 601                                      | 794   | 71 203                                    | 14 902                      | 303  | 1 951                        |   |                          |  | <b>126 278</b>               |
|   |                              |                            | <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                                 |  |                                   |   |   |   |                             |  |                              |   |                          |  |                              |
| Electricity - Électricité - Electrica (in/en GWh) | 11 908                       | 13 216                     | 2 237   |                                 |  | 179                               |   | 343   | 3 392                                     |                             | 268  |                              |   |                          |  | <b>31 541</b>                |
| Heat - Chaleur - Calor (in/en TJ)                 |                              |                            |   |                                 |  |                                   |   |   |   |                             |  |                              |   |                          |  |                              |

## Puerto Rico

## Puerto Rico

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                        |                                 | Geothermal<br>Géothermique<br>Geoénergia | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                                 | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total |
|---|--|----------------------------|--|---------------------------------|--|-----------------------------------|---|---|---------------------------------|--|-------------------------------|---|--------------------------|-------|
|   |  |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás                      |                               |   |                          |       |
| <b>Primary energy - Énergie primaire - Energía primaria</b>   |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |       |
| Production - Production - Generación<br>Imports - Importations - Importaciones<br>Exports - Exportations - Exportaciones<br>Stock - Stocks - Inventario (+/-)<br>Supply - Approvisionnement - Oferta<br>Differences - écarts - Diferencias  | 161  | 561                        | 3 045  |                                 |  |                                   |   |   |                                 | 113  |                               |   |                          | 3 879 |
| Supply - Approvisionnement - Oferta<br>Differences - écarts - Diferencias   | 161  | 561                        | 3 045  |                                 |  |                                   |   |   |                                 | 113  |                               |   |                          | 3 879 |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |       |
| Electricity - Électricité - Electrica<br>CHP - Cogénération - Cogeneración<br>Heat - Chaleur - Calor<br>Charcoal - Charbon - Carbón<br>Pellets/briq. - Granules/briq. - Pellets/briq.<br>Other - Autres - Otras<br>Own use - Consomm. propre - Uso propio<br>Distribution - Distribution - Distribución | - 161  | - 561                      | - 3 045  |                                 |  |                                   |   |   |                                 | - 113  |                               |   | 3 817                    | - 63  |
| Electricity - Électricité - Electrica<br>Heat - Chaleur - Calor<br>Charcoal - Charbon - Carbón<br>Pellets/briq. - Granules/briq. - Pellets/briq.<br>Other - Autres - Otras<br>Own use - Consomm. propre - Uso propio<br>Distribution - Distribution - Distribución                                      |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   | - 140                    | - 826 |
| <b>Final consumption - Consommation finale - Consumo final</b>  |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |       |
| Total - Total - Total<br>Industry - Industrie - Industria<br>Transport - Transport - Transporte<br>Commerce - Commerce - Comercial<br>Residential - Résidentiel - Residencial<br>Other - Autres - Otros   |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   | 2 850                    | 2 850 |
| Total - Total - Total<br>Electricity - Électricité - Electrica<br>Heat - Chaleur - Calor<br>Direct use - Utilisation directe - Uso directo  | 120  | 419                        | 2 274  |                                 |  |                                   |   |   |                                 | 37   |                               |   |                          | 2 850 |
| Electricity - Électricité - Electrica<br>Heat - Chaleur - Calor   | 120  | 419                        | 2 274  |                                 |  |                                   |   |   |                                 | 37   |                               |   |                          | 2 850 |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |       |
| Total - Total - Total<br>Electricity - Électricité - Electrica<br>Heat - Chaleur - Calor<br>Direct use - Utilisation directe - Uso directo  |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          | 1 060 |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b>   |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |       |
| Electricity - Électricité - Electrica (in/en GWh)<br>Heat - Chaleur - Calor (in/en TJ)  | 45   | 156                        | 846  |                                 |  |                                   |   |   |                                 | 14   |                               |   |                          | 1 060 |

| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                        |                                 | Geothermal<br>Géothermique<br>Geoénergia | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                                 | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total |
|---|--|----------------------------|--|---------------------------------|--|-----------------------------------|---|---|---------------------------------|--|-------------------------------|---|--------------------------|-------|
|   |  |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás                      |                               |   |                          |       |
| <b>Primary energy - Énergie primaire - Energía primaria</b>   |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |       |
| Production - Production - Generación<br>Imports - Importations - Importaciones<br>Exports - Exportations - Exportaciones<br>Stock - Stocks - Inventario (+/-)<br>Supply - Approvisionnement - Oferta<br>Differences - écarts - Diferencias  | 143  | 596                        | 2 444  |                                 |  |                                   |   |   |                                 | 113  |                               |   |                          | 3 296 |
| Supply - Approvisionnement - Oferta<br>Differences - écarts - Diferencias   | 143  | 596                        | 2 444  |                                 |  |                                   |   |   |                                 | 113  |                               |   |                          | 3 296 |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |       |
| Electricity - Électricité - Electrica<br>CHP - Cogénération - Cogeneración<br>Heat - Chaleur - Calor<br>Charcoal - Charbon - Carbón<br>Pellets/briq. - Granules/briq. - Pellets/briq.<br>Other - Autres - Otras<br>Own use - Consomm. propre - Uso propio<br>Distribution - Distribution - Distribución | - 143  | - 596                      | - 2 444  |                                 |  |                                   |   |   |                                 | - 113  |                               |   | 3 232                    | - 64  |
| Electricity - Électricité - Electrica<br>Heat - Chaleur - Calor<br>Charcoal - Charbon - Carbón<br>Pellets/briq. - Granules/briq. - Pellets/briq.<br>Other - Autres - Otras<br>Own use - Consomm. propre - Uso propio<br>Distribution - Distribution - Distribución                                      |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   | - 119                    | - 785 |
| <b>Final consumption - Consommation finale - Consumo final</b>  |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |       |
| Total - Total - Total<br>Industry - Industrie - Industria<br>Transport - Transport - Transporte<br>Commerce - Commerce - Comercial<br>Residential - Résidentiel - Residencial<br>Other - Autres - Otros   |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   | 2 328                    | 2 328 |
| Total - Total - Total<br>Electricity - Électricité - Electrica<br>Heat - Chaleur - Calor<br>Direct use - Utilisation directe - Uso directo  | 103  | 430                        | 1 760  |                                 |  |                                   |   |   |                                 | 35   |                               |   |                          | 2 328 |
| Electricity - Électricité - Electrica<br>Heat - Chaleur - Calor<br>Direct use - Utilisation directe - Uso directo   | 103  | 430                        | 1 760  |                                 |  |                                   |   |   |                                 | 35   |                               |   |                          | 2 328 |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |       |
| Total - Total - Total<br>Electricity - Électricité - Electrica<br>Heat - Chaleur - Calor<br>Direct use - Utilisation directe - Uso directo  |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          | 898   |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b>   |  |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |       |
| Electricity - Électricité - Electrica (in/en GWh)<br>Heat - Chaleur - Calor (in/en TJ)  | 40   | 166                        | 679  |                                 |  |                                   |   |   |                                 | 14   |                               |   |                          | 898   |

# Republic of Korea

# Republic of Korea

| 2022 (In/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                               |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                             |          | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total    |         |          |       |
|---|------------------------------|----------------------------|---|---------------------------------|-------------------------------|--|-----------------------------------|---|---|-----------------------------|----------|--|-------------------------------|---|--------------------------|----------|---------|----------|-------|
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás |          |  |                               |   |                          |          |         |          |       |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaaria |                                 |                               |  |                                   |   | Primary energy - Énergie primaire - Energía primaaria                       |                             |          |  |                               |   |                          |          |         |          |       |
| Production - Production - Generación  | 14 274                       | 12 139                     | 104 108   | 1 748                           | 11 515                        |  |                                   | 14 937                                      | 80 697  | 39 500                      | 9 642    |  |                               |   |                          | 288 561  |         |          |       |
| Imports - Importations - Importaciones  |                              |                            |   |                                 |                               |  |                                   |   |   | 1 699                       |          |  |                               |   |                          | 1 699    |         |          |       |
| Exports - Exportations - Exportaciones  |                              |                            |   |                                 |                               |  |                                   |   |   | 41 199                      | 9 642    |  |                               |   |                          | 290 260  |         |          |       |
| Stock - Stocks - Inventario (+/-)   | 14 274                       | 12 139                     | 104 108   | 1 748                           | 11 515                        |  |                                   | 14 937                                      | 80 697  | - 1 598                     | - 689    |  |                               |   |                          | - 1 881  |         |          |       |
| <b>Supply - Approvisionnement - Oferta</b>  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |          |  |                               |   |                          |          |         |          |       |
| Differences - Ecarts - Diferencias  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |          |  |                               |   |                          |          |         |          |       |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |          |  |                               |   |                          |          |         |          |       |
| Electricity - Électricité - Electrica   | - 14 274                     | - 12 139                   | - 104 108   |                                 |                               |  |                                   |   | - 1 983   | - 55 925                    | - 10 378 | - 4 494  |                               |   |                          | - 41 597 |         |          |       |
| CHP - Cogénération - Cogeneración   |                              |                            |   |                                 |                               |  |                                   |   | - 998   | - 6 188                     |          | - 2 526  |                               |   |                          | - 2 496  |         |          |       |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |                               |  |                                   |   | - 4 057   | - 981                       |          |  |                               |   |                          | - 659    |         |          |       |
| Charcoal - Charbon - Carbón   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |          |  |                               |   |                          | - 47     |         |          |       |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |          |  |                               |   |                          | - 13 991 |         |          |       |
| Other - Autres - Otras  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |          |  |                               |   |                          | - 5 413  |         |          |       |
| Own use - Consomm. propre - Uso propio  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |          |  |                               |   |                          | - 183    |         |          |       |
| Distribution - Distribution - Distribución  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |          |  |                               |   |                          | - 83     |         |          |       |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |          |  |                               |   |                          |          |         |          |       |
| Total - Total - Total   |                              |                            |   | 1 748                           | 11 515                        |  |                                   | 7 899                                       | 17 604  | 29 223                      | 1 933    |  |                               |   | 144 228                  | 9 070    | 223 220 |          |       |
| Industry - Industrie - Industria  |                              |                            |   | 88                              | 215                           |  |                                   | 1 403                                       | 10 484  |                             | 826      |  |                               |   | 74 176                   | 5 307    | 92 498  |          |       |
| Transport - Transport - Transporte  |                              |                            |   | 901                             | 7 946                         |  |                                   | 6 490                                       | 2 296   | 29 122                      | 840      |  |                               |   | 976                      |          | 30 098  |          |       |
| Commerce - Commerce - Comercial   |                              |                            |   | 759                             | 1 944                         |  |                                   |   | 4 758   |                             |          |  |                               |   | 44 192                   | 482      | 63 147  |          |       |
| Residential - Résidentiel - Residencial   |                              |                            |   | 1 410                           |                               |  |                                   | 6   | 66  | 101                         | 267      |  |                               |   | 19 971                   | 3 281    | 30 713  |          |       |
| Other - Autres - Otros  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |          |  |                               |   | 4 913                    |          | 6 763   |          |       |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |          |  |                               |   |                          |          |         |          |       |
| Total - Total - Total   | 12 596                       | 10 712                     | 91 871  | 1 748                           | 11 515                        |  |                                   | 12 427                                      | 43 305  | 33 607                      | 5 439    |  |                               |   |                          |          | 223 220 |          |       |
| Electricity - Électricité - Electrica   | 12 596                       | 10 712                     | 91 871  |                                 |                               |  |                                   |   | 712   | 21 583                      | 4 384    | 2 370  |                               |   |                          |          | 144 228 |          |       |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |                               |  |                                   |   | 3 817   | 4 117                       | 1136     |  |                               |   |                          | 9 070    |         |          |       |
| Direct use - Utilisation directe - Uso directo  |                              |                            |   | 1 748                           | 11 515                        |  |                                   | 7 899                                       | 17 604  | 29 223                      | 1 933    |  |                               |   |                          | 69 922   |         |          |       |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |   |                                 |                               |  |                                   |   |   |                             |          |  |                               |   |                          |          |         |          |       |
| Electricity - Électricité - Electrica (in/en GWh)   | 3 965                        | 3 372                      | 28 919  |                                 |                               |  |                                   | 224   | 6 794   | 1 380                       | 746      |  |                               |   |                          |          | 45 400  |          |       |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |   |                                 |                               |  |                                   | 4 149                                       | 4 476   |                             | 1235     |  |                               |   |                          |          | 9 860   |          |       |
| 2021 (In/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                               |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                             |          | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total    |         |          |       |
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás |          |  |                               |   |                          |          |         |          |       |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaaria |                                 |                               |  |                                   |   | Primary energy - Énergie primaire - Energía primaaria                       |                             |          |  |                               |   |                          |          |         |          |       |
| Production - Production - Generación  | 12 632                       | 11 459                     | 84 218  | 1 781                           | 10 854                        |  |                                   | 14 588                                      | 72 482  | 38 308                      | 8 043    |  |                               |   |                          |          | 254 366 |          |       |
| Imports - Importations - Importaciones  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |          |  |                               |   |                          |          |         |          |       |
| Exports - Exportations - Exportaciones  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |          |  |                               |   |                          |          |         |          |       |
| Stock - Stocks - Inventario (+/-)   | 12 632                       | 11 459                     | 84 218  | 1 781                           | 10 854                        |  |                                   | 14 588                                      | 72 482  | 38 308                      | 8 043    |  |                               |   |                          |          | 254 366 |          |       |
| <b>Supply - Approvisionnement - Oferta</b>  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |          |  |                               |   |                          |          | 237     |          |       |
| Differences - Ecarts - Diferencias  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |          |  |                               |   |                          |          |         |          |       |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |          |  |                               |   |                          |          |         |          |       |
| Electricity - Électricité - Electrica   | - 12 632                     | - 11 459                   | - 84 218  |                                 |                               |  |                                   |   | - 1 936   | - 46 759                    | - 10 863 | - 4 037  |                               |   |                          | 133 855  |         | - 38 049 |       |
| CHP - Cogénération - Cogeneración   |                              |                            |   |                                 |                               |  |                                   |   | - 975   | - 5 991                     |          | - 2 269  |                               |   |                          | 1 476    |         | - 2 566  |       |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |                               |  |                                   |   | - 3 962   | - 952                       |          |  |                               |   |                          |          | 4 126   |          | - 788 |
| Charcoal - Charbon - Carbón   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |          |  |                               |   |                          |          | - 38    |          |       |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |          |  |                               |   |                          | - 11 426 |         |          |       |
| Other - Autres - Otras  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |          |  |                               |   |                          | - 4 313  |         |          |       |
| Own use - Consomm. propre - Uso propio  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |          |  |                               |   |                          | - 68     |         |          |       |
| Distribution - Distribution - Distribución  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |          |  |                               |   |                          |          |         |          |       |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |          |  |                               |   |                          |          |         |          |       |
| Total - Total - Total   |                              |                            |   | 1 781                           | 10 854                        |  |                                   | 7 715                                       | 18 780  | 27 445                      | 1 737    |  |                               |   | 119 011                  | 8 709    | 196 032 |          |       |
| Industry - Industrie - Industria  |                              |                            |   | 90                              | 203                           |  |                                   | 1 370                                       | 11 133  |                             | 742      |  |                               |   | 61 207                   | 5 095    | 79 840  |          |       |
| Transport - Transport - Transporte  |                              |                            |   | 918                             | 7 490                         |  |                                   | 6 339                                       | 3 237   | 27 445                      |          |  |                               |   | 805                      |          | 28 250  |          |       |
| Commerce - Commerce - Comercial   |                              |                            |   | 774                             | 1 833                         |  |                                   |   | 4 399   |                             | 755      |  |                               |   | 36 465                   | 463      | 55 667  |          |       |
| Residential - Résidentiel - Residencial   |                              |                            |   | - 1                             | 1 328                         |  |                                   | 6   | 11  |                             | 240      |  |                               |   | 16 480                   | 3 150    | 26 636  |          |       |
| Other - Autres - Otros  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |          |  |                               |   | 4 054                    |          | 5 638   |          |       |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |          |  |                               |   |                          |          |         |          |       |
| Total - Total - Total   | 11 109                       | 10 077                     | 74 062  | 1 781                           | 10 854                        |  |                                   | 12 195                                      | 39 265  | 32 017                      | 4 672    |  |                               |   |                          |          | 196 032 |          |       |
| Electricity - Électricité - Electrica   | 11 109                       | 10 077                     | 74 062  |                                 |                               |  |                                   |   | 693   | 16 526                      | 4 572    | 1 972  |                               |   |                          |          | 119 011 |          |       |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |                               |  |                                   |   | 3 787   | 3 959                       |          | 963  |                               |   |                          |          | 8 709   |          |       |
| Direct use - Utilisation directe - Uso directo  |                              |                            |   | 1 781                           | 10 854                        |  |                                   | 7 715                                       | 18 780  | 27 445                      | 1 737    |  |                               |   |                          |          | 68 312  |          |       |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |   |                                 |                               |  |                                   |   |   |                             |          |  |                               |   |                          |          |         |          |       |
| Electricity - Électricité - Electrica (in/en GWh)   | 3 509                        | 3 183                      | 23 394  |                                 |                               |  |                                   |   | 219   | 5 220                       | 1 444    | 623  |                               |   |                          |          | 37 592  |          |       |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |   |                                 |                               |  |                                   |   | 4 052   | 4 237                       |          | 1 030  |                               |   |                          |          | 9 319   |          |       |

## Romania

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                               |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                                  |                            | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Carbon<br>Carbon | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total                             |
|---|------------------------------|----------------------------|---|---------------------------------|-------------------------------|--|-----------------------------------|---|---|----------------------------------|----------------------------|--|------------------------------|---|--------------------------|-----------------------------------|
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás      |                            |  |                              |   |                          |                                   |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaaria |                                 |                               |  |                                   |   | Primary energy - Énergie primaire - Energía primaaria                       |                                  |                            |  |                              |   |                          |                                   |
| Production - Production - Generación  | 50 316                       | 25 189                     | 7 158   | 33                              | 1140                          |  |                                   | 68  | 145 342<br>1628<br>+ 143  | 9 605<br>15 201<br>- 1708<br>295 | 1100                       | 1 070<br>- 4 716                                 | 1 122<br>- 49                | 13 133<br>- 11 275                      |                          | 239 952<br>32 154<br>- 17 749     |
| Imports - Importations - Importaciones  |                              |                            |   |                                 |                               |  |                                   |   |   |                                  |                            |  |                              |   |                          | 153                               |
| Exports - Exportations - Exportaciones  |                              |                            |   |                                 |                               |  |                                   |   |   |                                  |                            |  |                              |   |                          | 254 509                           |
| Stock - Stocks - Inventario (+/-)   |                              |                            |   |                                 |                               |  |                                   |   |   |                                  |                            |  |                              |   |                          | 5 105                             |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>50 316</b>                | <b>25 189</b>              | <b>7 158</b>  | <b>33</b>                       | <b>1140</b>                   | <b>11</b>                                |                                   | <b>68</b>                                   | <b>146 828</b><br><b>6 620</b>  | <b>23 393</b><br><b>- 3</b>      | <b>1100</b><br><b>- 11</b> | <b>- 3 646</b>                                   | <b>1 073</b>                 | <b>1 857</b><br><b>- 1 307</b>          |                          | <b>254 509</b><br><b>5 105</b>    |
| Differences - Ecarts - Diferencias  |                              |                            |   |                                 |                               |  |                                   |   |   |                                  |                            |  |                              |   |                          |                                   |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |   |                                 |                               |  |                                   |   |   |                                  |                            |  |                              |   |                          |                                   |
| Electricity - Électricité - Electrica   | - 50 316                     | - 25 189                   | - 7 158   |                                 |                               |  |                                   |   | - 685<br>- 7 263<br>- 554<br>- 22<br>- 8 635                                |                                  | - 245<br>- 679<br>- 57     |  |                              | 8 635                                   | 10                       | - 619<br>- 3 253<br>- 514<br>- 12 |
| CHP - Cogénération - Cogeneración   |                              |                            |   |                                 |                               |  |                                   |   |   |                                  |                            |  |                              |   |                          |                                   |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |                               |  |                                   |   |   |                                  |                            |  |                              |   |                          |                                   |
| Charcoal - Charbon - Carbón   |                              |                            |   |                                 |                               |  |                                   |   |   |                                  |                            |  |                              |   |                          |                                   |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |   |                                 |                               |  |                                   |   |   |                                  |                            |  |                              |   |                          |                                   |
| Other - Autres - Otras  |                              |                            |   |                                 |                               |  |                                   |   |   |                                  |                            |  |                              |   |                          |                                   |
| Own use - Consomm. propre - Uso propio  |                              |                            |   |                                 |                               |  |                                   |   |   |                                  |                            |  |                              |   |                          |                                   |
| Distribution - Distribution - Distribución  |                              |                            |   |                                 |                               |  |                                   |   | - 289<br>- 13   |                                  |                            |  |                              |   |                          | - 13 222<br>- 8 886               |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |   |                                 |                               |  |                                   |   |   |                                  |                            |  |                              |   |                          |                                   |
| Total - Total - Total   |                              |                            |   | 33                              | 473                           |  |                                   | 68  | 135 986<br>8 681<br>2   | 23 391                           | 107<br>41                  | 4 989  | 1 083                        | 64 850                                  | 2 540                    | 233 518                           |
| Industry - Industrie - Industria  |                              |                            |   | 18                              | 18                            |  |                                   | 53  |   |                                  |                            |  |                              |   |                          | 36 727                            |
| Transport - Transport - Transporte  |                              |                            |   | 15                              | 395                           |  |                                   | 16  | 2 782<br>124 111<br>411   | 23 391                           | 65                         | 499  | 162                          | 14 262                                  | 1 827                    | 25 220                            |
| Commerce - Commerce - Comercial   |                              |                            |   |                                 |                               |  |                                   |   |   |                                  |                            |  |                              |   |                          | 18 553                            |
| Residential - Résidentiel - Residencial   |                              |                            |   |                                 | 55                            |  |                                   |   |   |                                  |                            |  |                              |   |                          | 151 779                           |
| Other - Autres - Otros  |                              |                            |   |                                 | 5                             |  |                                   |   |   |                                  |                            |  |                              |   |                          | 1 238                             |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |   |                                 |                               |  |                                   |   |   |                                  |                            |  |                              |   |                          |                                   |
| Total - Total - Total   | 38 391                       | 19 219                     | 5 462   | 33                              | 669                           |  |                                   | 68  | 139 716   | 23 391                           | 497                        | 4 989  | 1 083                        | 64 850                                  | 2 540                    | 233 518                           |
| Electricity - Électricité - Electrica   | 38 391                       | 19 219                     | 5 462   |                                 |                               |  |                                   |   | 1 529<br>2 201  |                                  | 248                        |  |                              |   |                          | 64 850                            |
| Heat - Chaleur - Calor  |                              |                            |   |                                 | 196                           |  |                                   |   |   |                                  | 143                        |  |                              |   |                          | 2 540                             |
| Direct use - Utilisation directe - Uso directo  |                              |                            |   | 33                              | 473                           |  |                                   | 68  | 135 986   | 23 391                           | 107                        | 4 989  | 1 083                        |   |                          | 166 128                           |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |   |                                 |                               |  |                                   |   |   |                                  |                            |  |                              |   |                          |                                   |
| Electricity - Électricité - Electrica (in/en GWh)   | 13 977                       | 6 997                      | 1 988   |                                 |                               |  |                                   |   | 557<br>2 987  |                                  | 90<br>194                  |  |                              |   |                          | 23 609                            |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |   |                                 |                               | 266                                      |                                   |   |   |                                  |                            |  |                              |   |                          | 3 447                             |
| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                               |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                                  |                            | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Carbon<br>Carbon | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total                             |
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás      |                            |  |                              |   |                          |                                   |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaaria |                                 |                               |  |                                   |   | Primary energy - Énergie primaire - Energía primaaria                       |                                  |                            |  |                              |   |                          |                                   |
| Production - Production - Generación  | 62 683                       | 23 672                     | 6 132   | 49                              | 1108                          |  |                                   | 88  | 151 923<br>349<br>625   | 9 899<br>11 575<br>- 661<br>- 57 | 970                        | 1 245  | 1 218                        | 13 869                                  |                          | 256 524                           |
| Imports - Importations - Importaciones  |                              |                            |   |                                 |                               |  |                                   |   |   |                                  |                            |  |                              |   |                          | 28 257                            |
| Exports - Exportations - Exportaciones  |                              |                            |   |                                 |                               |  |                                   |   |   |                                  |                            |  |                              |   |                          | - 12 841                          |
| Stock - Stocks - Inventario (+/-)   |                              |                            |   |                                 |                               |  |                                   |   |   |                                  |                            |  |                              |   |                          | 569                               |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>62 683</b>                | <b>23 672</b>              | <b>6 132</b>  | <b>49</b>                       | <b>1108</b>                   |  |                                   | <b>88</b>                                   | <b>152 898</b><br><b>5 973</b>  | <b>20 757</b>                    | <b>970</b>                 | <b>- 419</b>                                     | <b>1 066</b>                 | <b>3 506</b><br><b>- 925</b>            |                          | <b>272 509</b><br><b>4 911</b>    |
| Differences - Ecarts - Diferencias  |                              |                            |   |                                 |                               |  |                                   |   |   |                                  |                            |  |                              |   |                          |                                   |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |   |                                 |                               |  |                                   |   |   |                                  |                            |  |                              |   |                          |                                   |
| Electricity - Électricité - Electrica   | - 62 683                     | - 23 672                   | - 6 132   |                                 |                               |  |                                   |   | - 450<br>- 7 722<br>- 1 013<br>- 139<br>- 8 971                             |                                  | - 150<br>- 617<br>- 92     |  |                              | 8 971                                   | 61                       | - 411<br>- 3 249<br>- 756<br>- 78 |
| CHP - Cogénération - Cogeneración   |                              |                            |   |                                 |                               |  |                                   |   |   |                                  |                            |  |                              |   |                          |                                   |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |                               |  |                                   |   |   |                                  |                            |  |                              |   |                          |                                   |
| Charcoal - Charbon - Carbón   |                              |                            |   |                                 |                               |  |                                   |   |   |                                  |                            |  |                              |   |                          |                                   |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |   |                                 |                               |  |                                   |   |   |                                  |                            |  |                              |   |                          |                                   |
| Other - Autres - Otras  |                              |                            |   |                                 |                               |  |                                   |   |   |                                  |                            |  |                              |   |                          |                                   |
| Own use - Consomm. propre - Uso propio  |                              |                            |   |                                 |                               |  |                                   |   | - 424<br>- 40   |                                  |                            |  |                              |   |                          | - 15 124<br>- 10 627              |
| Distribution - Distribution - Distribución  |                              |                            |   |                                 |                               |  |                                   |   |   |                                  |                            |  |                              |   |                          |                                   |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |   |                                 |                               |  |                                   |   |   |                                  |                            |  |                              |   |                          |                                   |
| Total - Total - Total   |                              |                            |   | 49                              | 378                           |  |                                   | 88  | 140 114<br>8 336<br>1   | 20 757                           | 110                        | 8 552  | 1 127                        | 73 433<br>33 653<br>2 112               | 2 843                    | 247 450                           |
| Industry - Industrie - Industria  |                              |                            |   | 33                              | 7                             |  |                                   | 49  |   |                                  | 68                         |  |                              |   |                          | 42 576                            |
| Transport - Transport - Transporte  |                              |                            |   | 17                              | 230                           |  |                                   | 39  | 3 003<br>128 467<br>307   | 20 757                           | 42                         | 855<br>7 697                                     | 169<br>958                   | 14 089<br>22 715<br>863                 | 402<br>1 992<br>19       | 22 870<br>18 845<br>11 97         |
| Commerce - Commerce - Comercial   |                              |                            |   |                                 | 134                           |  |                                   |   |   |                                  |                            |  |                              |   |                          |                                   |
| Residential - Résidentiel - Residencial   |                              |                            |   |                                 | 8                             |  |                                   |   |   |                                  |                            |  |                              |   |                          |                                   |
| Other - Autres - Otros  |                              |                            |   |                                 |                               |  |                                   |   |   |                                  |                            |  |                              |   |                          |                                   |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |   |                                 |                               |  |                                   |   |   |                                  |                            |  |                              |   |                          |                                   |
| Total - Total - Total   | 48 536                       | 18 329                     | 4 748   | 49                              | 563                           |  |                                   | 88  | 144 251   | 20 757                           | 451                        | 8 552  | 1 127                        | 73 433<br>2 540                         | 2 843                    | 247 450                           |
| Electricity - Électricité - Electrica   | 48 536                       | 18 329                     | 4 748   |                                 |                               |  |                                   |   | 1616<br>2 521   |                                  | 203<br>137                 |  |                              |   |                          | 73 433                            |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |                               | 185                                      |                                   |   |   |                                  | 110                        | 8 552  | 1 127                        |   |                          | 2 843                             |
| Direct use - Utilisation directe - Uso directo  |                              |                            |   |                                 | 378                           |  |                                   | 88  | 140 114   | 20 757                           | 110                        | 8 552  | 1 127                        |   |                          | 171 174                           |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |   |                                 |                               |  |                                   |   |   |                                  |                            |  |                              |   |                          |                                   |
| Electricity - Électricité - Electrica (in/en GWh)   | 17 412                       | 6 576                      | 1 703   |                                 |                               |  |                                   |   | 580<br>3 554  |                                  | 73<br>194                  |  |                              |   |                          | 26 344<br>4 009                   |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |   |                                 |                               | 261                                      |                                   |   |   |                                  |                            |  |                              |   |                          |                                   |

## Rwanda

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                               |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios   |                                 |                              | Pellets/briq.<br>Granules/briq.<br>Pellets/briq.      | Charcoal<br>Carbon<br>Carbon | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total         |         |
|---|------------------------------|----------------------------|---|---------------------------------|--|-----------------------------------|---|---|---------------------------------|------------------------------|---|------------------------------|---|--------------------------|---------------|---------|
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Bioegas - Biogaz<br>- Biogás |   |                              |   |                          |               |         |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaaria |                                 |  |                                   |   |   |                                 |                              | Primary energy - Énergie primaire - Energía primaaria |                              |   |                          |               |         |
| Production - Production - Generación  | 1 857                        |                            | 130   |                                 |  |                                   |   | 56 927  |                                 | 201                          |   | 2                            | 185                                     |                          | 59 115        |         |
| Imports - Importations - Importaciones  |                              |                            |   |                                 |  |                                   |   |   |                                 |                              |   | - 17                         |   | 187                      |               |         |
| Exports - Exportations - Exportaciones  |                              |                            |   |                                 |  |                                   |   |   |                                 |                              |   |                              |   |                          | - 17          |         |
| Stock - Stocks - Inventario (+/-)   |                              |                            |   |                                 |  |                                   |   |   |                                 |                              |   |                              |   |                          |               |         |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>1 857</b>                 |                            | <b>130</b>  |                                 |  |                                   |   | <b>56 927</b>   |                                 | <b>201</b>                   |   | <b>2</b>                     | <b>168</b>                              |                          | <b>59 285</b> |         |
| Differences - Ecarts - Diferencias  |                              |                            |   |                                 |  |                                   |   |   |                                 |                              |   | - 1198                       | - 66                                    |                          | - 1 263       |         |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |   |                                 |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                                 |                              |   |                              |   |                          |               |         |
| Electricity - Électricité - Electrica   | - 1 857                      |                            | - 130   |                                 |  |                                   |   | - 19  |                                 |                              |   |                              | 1 987                                   |                          |               | - 12    |
| CHP - Cogénération - Cogeneración   |                              |                            |   |                                 |  |                                   |   | - 3 266   |                                 |                              |   |                              | 7                                       |                          |               | - 1 788 |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |  |                                   |   |   |                                 |                              |   |                              |   |                          |               |         |
| Charcoal - Charbon - Carbón   |                              |                            |   |                                 |  |                                   |   |   |                                 |                              |   |                              |   |                          |               |         |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |   |                                 |  |                                   |   |   |                                 |                              |   |                              |   |                          |               |         |
| Other - Autres - Otras  |                              |                            |   |                                 |  |                                   |   |   |                                 |                              |   |                              |   |                          |               | - 11    |
| Own use - Consomm. propre - Uso propio  |                              |                            |   |                                 |  |                                   |   |   |                                 |                              |   |                              |   |                          |               |         |
| Distribution - Distribution - Distribución  |                              |                            |   |                                 |  |                                   |   |   |                                 |                              |   | - 386                        |   |                          | - 386         |         |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |   |                                 |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                                 |                              |   |                              |   |                          |               |         |
| Total - Total - Total   |                              |                            |   |                                 |  |                                   |   | 53 642  |                                 | 201                          |   | 283                          | 1 695                                   |                          | 55 822        |         |
| Industry - Industrie - Industria  |                              |                            |   |                                 |  |                                   |   | 208   |                                 |                              |   |                              | 535                                     |                          | 743           |         |
| Transport - Transport - Transporte  |                              |                            |   |                                 |  |                                   |   |   |                                 |                              |   |                              |   |                          |               |         |
| Commerce - Commerce - Comercial   |                              |                            |   |                                 |  |                                   |   | 53 434  |                                 | 56                           |   | 283                          | 836                                     |                          | 892           |         |
| Residential - Résidentiel - Residencial   |                              |                            |   |                                 |  |                                   |   |   |                                 | 145                          |   |                              | 324                                     |                          | 54 187        |         |
| Other - Autres - Otros  |                              |                            |   |                                 |  |                                   |   |   |                                 |                              |   |                              |   |                          |               |         |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |   |                                 |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                                 |                              |   |                              |   |                          |               |         |
| <b>Total - Total - Total</b>  | <b>1 579</b>                 |                            | <b>110</b>  |                                 |  |                                   |   | <b>53 648</b>   |                                 | <b>201</b>                   |   | <b>283</b>                   | <b>1 695</b>                            |                          | <b>55 822</b> |         |
| Electricity - Électricité - Electrica   | 1 579                        |                            | 110   |                                 |  |                                   |   | 6   |                                 |                              |   |                              |   |                          | 1 695         |         |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |  |                                   |   |   |                                 |                              |   |                              |   |                          |               |         |
| Direct use - Utilisation directe - Uso directo  |                              |                            |   |                                 |  |                                   |   | 53 642  |                                 | 201                          |   | 283                          |   |                          | 54 127        |         |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |   |                                 |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                                 |                              |   |                              |   |                          |               |         |
| Electricity - Électricité - Electrica (in/en GWh)   | 516                          |                            | 36  |                                 |  |                                   |   | 2   |                                 |                              |   |                              |   |                          | 554           |         |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |   |                                 |  |                                   |   |   |                                 |                              |   |                              |   |                          |               |         |
| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                               |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios   |                                 |                              | Pellets/briq.<br>Granules/briq.<br>Pellets/briq.      | Charcoal<br>Carbon<br>Carbon | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total         |         |
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Bioegas - Biogaz<br>- Biogás |   |                              |   |                          |               |         |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaaria |                                 |  |                                   |   |   |                                 |                              | Primary energy - Énergie primaire - Energía primaaria |                              |   |                          |               |         |
| Production - Production - Generación  | 2 006                        |                            | 129   |                                 |  |                                   |   | 56 927  |                                 | 217                          |   | 0                            | 224                                     |                          | 59 279        |         |
| Imports - Importations - Importaciones  |                              |                            |   |                                 |  |                                   |   |   |                                 |                              |   | - 0                          | - 20                                    |                          | 225           |         |
| Exports - Exportations - Exportaciones  |                              |                            |   |                                 |  |                                   |   |   |                                 |                              |   |                              |   |                          | - 20          |         |
| Stock - Stocks - Inventario (+/-)   |                              |                            |   |                                 |  |                                   |   |   |                                 |                              |   |                              |   |                          |               |         |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>2 006</b>                 |                            | <b>129</b>  |                                 |  |                                   |   | <b>56 927</b>   |                                 | <b>217</b>                   |   | <b>- 0</b>                   | <b>204</b>                              |                          | <b>59 483</b> |         |
| Differences - Ecarts - Diferencias  |                              |                            |   |                                 |  |                                   |   |   |                                 |                              |   |                              |   |                          | - 312         |         |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |   |                                 |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                                 |                              |   |                              |   |                          |               |         |
| Electricity - Électricité - Electrica   | - 2 006                      |                            | - 129   |                                 |  |                                   |   | - 19  |                                 |                              |   |                              | 2 135                                   |                          |               | - 12    |
| CHP - Cogénération - Cogeneración   |                              |                            |   |                                 |  |                                   |   | - 3 266   |                                 |                              |   |                              | 7                                       |                          |               | - 1 788 |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |  |                                   |   |   |                                 |                              |   |                              |   |                          |               |         |
| Charcoal - Charbon - Carbón   |                              |                            |   |                                 |  |                                   |   |   |                                 |                              |   |                              |   |                          |               |         |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |   |                                 |  |                                   |   |   |                                 |                              |   |                              |   |                          |               |         |
| Other - Autres - Otras  |                              |                            |   |                                 |  |                                   |   |   |                                 |                              |   |                              |   |                          |               |         |
| Own use - Consomm. propre - Uso propio  |                              |                            |   |                                 |  |                                   |   |   |                                 |                              |   |                              |   |                          |               |         |
| Distribution - Distribution - Distribución  |                              |                            |   |                                 |  |                                   |   |   |                                 |                              |   | - 10                         |   |                          | - 10          |         |
|   |                              |                            |   |                                 |  |                                   |   |   |                                 |                              |   | - 390                        |   |                          | - 390         |         |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |   |                                 |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                                 |                              |   |                              |   |                          |               |         |
| Total - Total - Total   |                              |                            |   |                                 |  |                                   |   | 53 642  |                                 | 217                          |   | 1 478                        | 1 635                                   |                          | 56 972        |         |
| Industry - Industrie - Industria  |                              |                            |   |                                 |  |                                   |   | 6 234   |                                 |                              |   |                              | 515                                     |                          | 6 748         |         |
| Transport - Transport - Transporte  |                              |                            |   |                                 |  |                                   |   |   |                                 |                              |   |                              |   |                          |               |         |
| Commerce - Commerce - Comercial   |                              |                            |   |                                 |  |                                   |   | 47 409  |                                 | 56                           |   | 1 478                        | 414                                     |                          | 470           |         |
| Residential - Résidentiel - Residencial   |                              |                            |   |                                 |  |                                   |   |   |                                 | 161                          |   |                              | 322                                     |                          | 49 370        |         |
| Other - Autres - Otros  |                              |                            |   |                                 |  |                                   |   |   |                                 |                              |   |                              | 384                                     |                          | 384           |         |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |   |                                 |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                                 |                              |   |                              |   |                          |               |         |
| <b>Total - Total - Total</b>  | <b>1 531</b>                 |                            | <b>98</b>   |                                 |  |                                   |   | <b>53 648</b>   |                                 | <b>217</b>                   |   | <b>1 478</b>                 | <b>1 635</b>                            |                          | <b>56 972</b> |         |
| Electricity - Électricité - Electrica   | 1 531                        |                            | 98  |                                 |  |                                   |   | 5   |                                 |                              |   |                              |   |                          | 1 635         |         |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |  |                                   |   |   |                                 |                              |   |                              |   |                          |               |         |
| Direct use - Utilisation directe - Uso directo  |                              |                            |   |                                 |  |                                   |   | 53 642  |                                 | 217                          |   | 1 478                        |   |                          | 55 338        |         |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |   |                                 |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                                 |                              |   |                              |   |                          |               |         |
| Electricity - Électricité - Electrica (in/en GWh)   | 557                          |                            | 36  |                                 |  |                                   |   | 2   |                                 |                              |   |                              |   |                          | 595           |         |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |   |                                 |  |                                   |   |   |                                 |                              |   |                              |   |                          |               |         |

## Réunion

## Réunion

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Eoliennes<br>Éolica | Solar - Solaire - Solar                               |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica  | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primaires -<br>Biocombustibles primarios |                             |            | Pellets/briq.<br>Granules/briq.<br>Pellets/briq.  | Charcoal<br>Charbon<br>Carbón | Electricity<br>Electricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total                        |  |
|---|------------------------------|-----------------------------|---|---------------------------------|-------------------------------|---|-----------------------------------|---|---|-----------------------------|------------|---|-------------------------------|---|--------------------------|------------------------------|--|
|   |                              |                             | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |   |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás |            |   |                               |   |                          |                              |  |
|   |                              |                             | Primary energy - Énergie primaire - Energía primaaria |                                 |                               |   |                                   |   | Primary energy - Énergie primaire - Energía primaaria                       |                             |            |   |                               |   |                          |                              |  |
| Production - Production - Generación  | 2 283                        | 10                          | 969   | 1 151                           |                               |   |                                   |   | 4 390   | 17<br>68                    | 243        | 675   | 20                            |   |                          | 9 064<br>763                 |  |
| Imports - Importations - Importaciones  |                              |                             |   |                                 |                               |   |                                   |   |   |                             |            |   |                               |   |                          |                              |  |
| Exports - Exportations - Exportaciones  |                              |                             |   |                                 |                               |   |                                   |   |   |                             |            |   |                               |   |                          |                              |  |
| Stock - Stocks - Inventario (+/-)   |                              |                             |   |                                 |                               |   |                                   |   |   |                             |            |   |                               |   |                          |                              |  |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>2 283</b>                 | <b>10</b>                   | <b>969</b>  | <b>1 151</b>                    |                               |   |                                   |   | <b>4 390</b>  | <b>86</b>                   | <b>243</b> | <b>675</b>  | <b>20</b>                     |   |                          | <b>9 827</b><br><b>- 393</b> |  |
| Differences - Ecarts - Diferencias  |                              |                             |   |                                 |                               |   |                                   |   |   |                             |            |   |                               |   |                          |                              |  |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                             |   |                                 |                               | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                                   |   |   |                             |            | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                               |   |                          |                              |  |
| Electricity - Électricité - Electrica   | - 2 283                      | - 10                        | - 969   |                                 |                               |   |                                   |   | - 3 119   | - 86                        |            | - 243   | - 675                         |   |                          | - 68<br>- 3 153              |  |
| CHP - Cogénération - Cogeneración   |                              |                             |   |                                 |                               |   |                                   |   |   |                             |            |   |                               |   |                          |                              |  |
| Heat - Chaleur - Calor  |                              |                             |   |                                 |                               |   |                                   |   | - 984   |                             |            |   |                               |   |                          | - 539                        |  |
| Charcoal - Charbon - Carbón   |                              |                             |   |                                 |                               |   |                                   |   |   |                             |            |   |                               |   |                          |                              |  |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                             |   |                                 |                               |   |                                   |   |   |                             |            |   |                               |   |                          |                              |  |
| Other - Autres - Otras  |                              |                             |   |                                 |                               |   |                                   |   |   |                             |            |   |                               |   |                          |                              |  |
| Own use - Consomm. propre - Uso propio  |                              |                             |   |                                 |                               |   |                                   |   |   |                             |            |   |                               |   |                          |                              |  |
| Distribution - Distribution - Distribución  |                              |                             |   |                                 |                               |   |                                   |   |   |                             |            |   |                               |   |                          | - 291<br>- 291               |  |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                             |   |                                 |                               | <b>Final consumption - Consommation finale - Consumo final</b>  |                                   |   |   |                             |            | <b>Final consumption - Consommation finale - Consumo final</b>  |                               |   |                          |                              |  |
| Total - Total - Total   |                              |                             |   | 1 151                           |                               |   |                                   |   | 287<br>154  |                             |            |   | 465                           | 3 481<br>612<br>6                       |                          | 5 384<br>766<br>6            |  |
| Industry - Industrie - Industria  |                              |                             |   |                                 |                               |   |                                   |   |   |                             |            |   |                               |   |                          |                              |  |
| Transport - Transport - Transporte  |                              |                             |   |                                 |                               |   |                                   |   |   |                             |            |   |                               |   |                          |                              |  |
| Commerce - Commerce - Comercial   |                              |                             |   |                                 |                               |   |                                   |   |   |                             |            |   |                               |   |                          |                              |  |
| Residential - Résidentiel - Residencial   |                              |                             |   |                                 |                               |   |                                   |   |   |                             |            |   |                               |   |                          |                              |  |
| Other - Autres - Otros  |                              |                             |   |                                 |                               |   |                                   |   |   |                             |            |   |                               |   |                          |                              |  |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                             |   |                                 |                               | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                                   |   |   |                             |            | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                               |   |                          |                              |  |
| Total - Total - Total   | 1 995                        | 9                           | 847   | 1 151                           |                               |   |                                   |   | 698<br>412  | 16<br>16                    | 42<br>42   | 159   | 465                           |   |                          | 5 384<br>3 481               |  |
| Electricity - Électricité - Electrica   | 1 995                        | 9                           | 847   |                                 |                               |   |                                   |   |   |                             |            |   |                               |   |                          |                              |  |
| Heat - Chaleur - Calor  |                              |                             |   | 1 151                           |                               |   |                                   |   |   |                             |            |   |                               |   |                          | 1 904                        |  |
| Direct use - Utilisation directe - Uso directo  |                              |                             |   |                                 |                               |   |                                   |   |   |                             |            |   |                               |   |                          |                              |  |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                             |   |                                 |                               | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                                   |   |   |                             |            | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                               |   |                          |                              |  |
| Electricity - Électricité - Electrica (in/en GWh)   | 634                          | 3                           | 269   |                                 |                               |   |                                   |   | 131   | 5                           | 14         | 51  |                               |   |                          | 1 106                        |  |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                             |   |                                 |                               |   |                                   |   |   |                             |            |   |                               |   |                          |                              |  |
| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Eoliennes<br>Éolica | Solar - Solaire - Solar                               |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica  | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primaires -<br>Biocombustibles primarios |                             |            | Pellets/briq.<br>Granules/briq.<br>Pellets/briq.  | Charcoal<br>Charbon<br>Carbón | Electricity<br>Electricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total                        |  |
|   |                              |                             | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |   |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás |            |   |                               |   |                          |                              |  |
|   |                              |                             | Primary energy - Énergie primaire - Energía primaaria |                                 |                               |   |                                   |   | Primary energy - Énergie primaire - Energía primaaria                       |                             |            |   |                               |   |                          |                              |  |
| Production - Production - Generación  | 1 288                        | 15                          | 972   | 1 110                           |                               |   |                                   |   | 4 713   | 29<br>29                    | 239        |   | 20                            |   |                          | 8 366<br>49                  |  |
| Imports - Importations - Importaciones  |                              |                             |   |                                 |                               |   |                                   |   |   |                             |            |   |                               |   |                          |                              |  |
| Exports - Exportations - Exportaciones  |                              |                             |   |                                 |                               |   |                                   |   |   |                             |            |   |                               |   |                          |                              |  |
| Stock - Stocks - Inventario (+/-)   |                              |                             |   |                                 |                               |   |                                   |   |   |                             |            |   |                               |   |                          |                              |  |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>1 288</b>                 | <b>15</b>                   | <b>972</b>  | <b>1 110</b>                    |                               |   |                                   |   | <b>4 713</b>  | <b>59</b>                   | <b>239</b> |   | <b>20</b>                     |   |                          | <b>8 415</b><br><b>- 2</b>   |  |
| Differences - Ecarts - Diferencias  |                              |                             |   |                                 |                               |   |                                   |   |   |                             |            |   |                               |   |                          |                              |  |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                             |   |                                 |                               | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                                   |   |   |                             |            | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                               |   |                          |                              |  |
| Electricity - Électricité - Electrica   | - 1 288                      | - 15                        | - 972   |                                 |                               |   |                                   |   | - 3 437   | - 59                        |            | - 239   |                               | 2 296<br>843                            |                          | - 38<br>- 2 833              |  |
| CHP - Cogénération - Cogeneración   |                              |                             |   |                                 |                               |   |                                   |   |   |                             |            |   |                               |   |                          |                              |  |
| Heat - Chaleur - Calor  |                              |                             |   |                                 |                               |   |                                   |   | - 986   |                             |            |   |                               | 447                                     |                          | - 540                        |  |
| Charcoal - Charbon - Carbón   |                              |                             |   |                                 |                               |   |                                   |   |   |                             |            |   |                               |   |                          |                              |  |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                             |   |                                 |                               |   |                                   |   |   |                             |            |   |                               |   |                          |                              |  |
| Other - Autres - Otras  |                              |                             |   |                                 |                               |   |                                   |   |   |                             |            |   |                               |   |                          |                              |  |
| Own use - Consomm. propre - Uso propio  |                              |                             |   |                                 |                               |   |                                   |   |   |                             |            |   |                               |   |                          |                              |  |
| Distribution - Distribution - Distribución  |                              |                             |   |                                 |                               |   |                                   |   |   |                             |            |   |                               |   |                          | - 286<br>- 286               |  |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                             |   |                                 |                               | <b>Final consumption - Consommation finale - Consumo final</b>  |                                   |   |   |                             |            | <b>Final consumption - Consommation finale - Consumo final</b>  |                               |   |                          |                              |  |
| Total - Total - Total   |                              |                             |   | 1 110                           |                               |   |                                   |   | 289<br>156  |                             |            |   | 467                           | 2 852<br>502<br>2                       |                          | 4 717<br>657<br>2            |  |
| Industry - Industrie - Industria  |                              |                             |   |                                 |                               |   |                                   |   |   |                             |            |   |                               |   |                          |                              |  |
| Transport - Transport - Transporte  |                              |                             |   |                                 |                               |   |                                   |   |   |                             |            |   |                               |   |                          |                              |  |
| Commerce - Commerce - Comercial   |                              |                             |   |                                 |                               |   |                                   |   |   |                             |            |   |                               |   |                          |                              |  |
| Residential - Résidentiel - Residencial   |                              |                             |   |                                 |                               |   |                                   |   |   |                             |            |   |                               |   |                          |                              |  |
| Other - Autres - Otros  |                              |                             |   |                                 |                               |   |                                   |   |   |                             |            |   |                               |   |                          |                              |  |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                             |   |                                 |                               | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                                   |   |   |                             |            | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                               |   |                          |                              |  |
| Total - Total - Total   | 1 170                        | 14                          | 883   | 1 110                           |                               |   |                                   |   | 998<br>709  | 19<br>19                    | 58         |   | 467                           |   |                          | 4 717<br>2 852               |  |
| Electricity - Électricité - Electrica   | 1 170                        | 14                          | 883   |                                 |                               |   |                                   |   |   |                             |            |   |                               |   |                          |                              |  |
| Heat - Chaleur - Calor  |                              |                             |   | 1 110                           |                               |   |                                   |   | 289   |                             |            |   | 467                           |   |                          | 1 865                        |  |
| Direct use - Utilisation directe - Uso directo  |                              |                             |   |                                 |                               |   |                                   |   |   |                             |            |   |                               |   |                          |                              |  |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                             |   |                                 |                               | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                                   |   |   |                             |            | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                               |   |                          |                              |  |
| Electricity - Électricité - Electrica (in/en GWh)   | 358                          | 4                           | 270   |                                 |                               |   |                                   |   | 217   | 6                           | 18         |   |                               |   |                          | 872                          |  |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                             |   |                                 |                               |   |                                   |   |   |                             |            |   |                               |   |                          |                              |  |

## Sao Tome and Principe

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Eoliennes<br>Éolica | Solar - Solaire - Solar                               |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primaires -<br>Biocombustibles primarios   |                                 |                             | Pellets/briq.<br>Granules/briq.<br>Pellets/briq.      | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Electricidad | Heat<br>Chaleur<br>Calor | Total      |
|---|------------------------------|-----------------------------|---|---------------------------------|--|-----------------------------------|---|---|---------------------------------|-----------------------------|---|-------------------------------|--|--------------------------|------------|
|   |                              |                             | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás |   |                               |  |                          |            |
|   |                              |                             | Primary energy - Énergie primaire - Energía primaaria |                                 |  |                                   |   |   |                                 |                             | Primary energy - Énergie primaire - Energía primaaria |                               |  |                          |            |
| Production - Production - Generación  | 22                           |                             | 0   |                                 |  |                                   |   | 1 318   |                                 |                             | 0   |                               |  |                          | 1 340      |
| Imports - Importations - Importaciones  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             | 0   |                               |  |                          | 0          |
| Exports - Exportations - Exportaciones  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             | 0   |                               |  |                          | 0          |
| Stock - Stocks - Inventario (+/-)   |                              |                             | 0   |                                 |  |                                   |   | 1 318   |                                 |                             | 0   |                               |  |                          | 1 340      |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>22</b>                    |                             | <b>0</b>  |                                 |  |                                   |   |   |                                 |                             | <b>0</b>  |                               |  |                          | <b>0</b>   |
| Differences - Ecarts - Diferencias  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             | - 0   |                               |  |                          | - 0        |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                             |   |                                 |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                                 |                             |   |                               |  |                          |            |
| Electricity - Électricité - Electrica   | - 22                         |                             | - 0   |                                 |  |                                   |   | - 699   |                                 |                             |   |                               |  | 22                       |            |
| CHP - Cogénération - Cogeneración   |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |  |                          |            |
| Heat - Chaleur - Calor  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   | 316                           |  |                          |            |
| Charcoal - Charbon - Carbón   |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |  |                          |            |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |  |                          |            |
| Other - Autres - Otras  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |  |                          |            |
| Own use - Consomm. propre - Uso propio  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |  |                          |            |
| Distribution - Distribution - Distribución  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |  |                          |            |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                             |   |                                 |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                                 |                             |   |                               |  |                          |            |
| <b>Total - Total - Total</b>  |                              |                             |   |                                 |  |                                   |   | <b>619</b>  |                                 |                             |   | <b>317</b>                    | <b>22</b>                                  |                          | <b>957</b> |
| Industry - Industrie - Industria  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               | <b>1</b>                                   |                          |            |
| Transport - Transport - Transporte  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |  |                          |            |
| Commerce - Commerce - Comercial   |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |  |                          |            |
| Residential - Résidentiel - Residencial   |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |  |                          |            |
| Other - Autres - Otros  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |  |                          |            |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                             |   |                                 |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                                 |                             |   |                               |  |                          |            |
| <b>Total - Total - Total</b>  | <b>22</b>                    |                             | <b>0</b>  |                                 |  |                                   |   | <b>619</b>  |                                 |                             |   | <b>317</b>                    | <b>22</b>                                  |                          | <b>957</b> |
| Electricity - Électricité - Electrica   | 22                           |                             | 0   |                                 |  |                                   |   |   |                                 |                             |   |                               |  |                          |            |
| Heat - Chaleur - Calor  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |  |                          |            |
| Direct use - Utilisation directe - Uso directo  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   | 317                           |  |                          |            |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                             |   |                                 |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                                 |                             |   |                               |  |                          |            |
| Electricity - Électricité - Electrica (in/en GWh)   | 6                            |                             | 0   |                                 |  |                                   |   |   |                                 |                             |   |                               |  |                          | 6          |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |  |                          |            |
| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Eoliennes<br>Éolica | Solar - Solaire - Solar                               |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primaires -<br>Biocombustibles primarios   |                                 |                             | Pellets/briq.<br>Granules/briq.<br>Pellets/briq.      | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Electricidad | Heat<br>Chaleur<br>Calor | Total      |
|   |                              |                             | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás |   |                               |  |                          |            |
|   |                              |                             | Primary energy - Énergie primaire - Energía primaaria |                                 |  |                                   |   |   |                                 |                             | Primary energy - Énergie primaire - Energía primaaria |                               |  |                          |            |
| Production - Production - Generación  | 22                           |                             | 1   |                                 |  |                                   |   | 1 311   |                                 |                             |   |                               |  |                          | 1 333      |
| Imports - Importations - Importaciones  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |  |                          |            |
| Exports - Exportations - Exportaciones  |                              |                             | 1   |                                 |  |                                   |   | 1 311   |                                 |                             |   |                               |  |                          | 1 333      |
| Stock - Stocks - Inventario (+/-)   |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |  |                          | 0          |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>22</b>                    |                             | <b>1</b>  |                                 |  |                                   |   |   |                                 |                             |   |                               |  |                          | <b>0</b>   |
| Differences - Ecarts - Diferencias  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |  |                          |            |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                             |   |                                 |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                                 |                             |   |                               |  |                          |            |
| Electricity - Électricité - Electrica   | - 22                         |                             | - 1   |                                 |  |                                   |   | - 691   |                                 |                             |   |                               |  | 22                       |            |
| CHP - Cogénération - Cogeneración   |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |  |                          |            |
| Heat - Chaleur - Calor  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   | 313                           |  |                          |            |
| Charcoal - Charbon - Carbón   |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |  |                          |            |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |  |                          |            |
| Other - Autres - Otras  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |  |                          |            |
| Own use - Consomm. propre - Uso propio  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |  |                          |            |
| Distribution - Distribution - Distribución  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |  |                          |            |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                             |   |                                 |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                                 |                             |   |                               |  |                          |            |
| <b>Total - Total - Total</b>  |                              |                             |   |                                 |  |                                   |   | <b>620</b>  |                                 |                             |   | <b>313</b>                    | <b>22</b>                                  |                          | <b>955</b> |
| Industry - Industrie - Industria  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               | <b>1</b>                                   |                          |            |
| Transport - Transport - Transporte  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |  |                          |            |
| Commerce - Commerce - Comercial   |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |  |                          |            |
| Residential - Résidentiel - Residencial   |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |  |                          |            |
| Other - Autres - Otros  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |  |                          |            |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                             |   |                                 |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                                 |                             |   |                               |  |                          |            |
| <b>Total - Total - Total</b>  | <b>21</b>                    |                             | <b>1</b>  |                                 |  |                                   |   | <b>620</b>  |                                 |                             |   | <b>313</b>                    | <b>22</b>                                  |                          | <b>955</b> |
| Electricity - Électricité - Electrica   | 21                           |                             | 1   |                                 |  |                                   |   |   |                                 |                             |   |                               |  |                          |            |
| Heat - Chaleur - Calor  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |  |                          |            |
| Direct use - Utilisation directe - Uso directo  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   | 313                           |  |                          |            |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                             |   |                                 |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                                 |                             |   |                               |  |                          |            |
| Electricity - Électricité - Electrica (in/en GWh)   | 6                            |                             | 0   |                                 |  |                                   |   |   |                                 |                             |   |                               |  |                          | 6          |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |  |                          |            |

## Senegal

## Senegal

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Eoliennes<br>Éolica | Solar - Solaire - Solar                                      |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primaires -<br>Biocombustibles primarios |                             |     | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbon | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total    |
|---|------------------------------|-----------------------------|--|---------------------------------|-------------------------------|--|-----------------------------------|---|---|-----------------------------|-----|--|-------------------------------|---|--------------------------|----------|
|   |                              |                             | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica               | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás |     |  |                               |   |                          |          |
|   |                              |                             | <b>Primary energy - Énergie primaire - Energía primaaria</b> |                                 |                               |  |                                   |   |   |                             |     |  |                               |   |                          |          |
| Production - Production - Generación  |                              |                             | 1424   | 1526                            |                               |  |                                   |   | 67 396  | 0                           | 59  |  | 5                             | 288                                     |                          | 70 405   |
| Imports - Importations - Importaciones  |                              |                             |  |                                 | - 1                           |  |                                   |   |   |                             |     |  | - 3                           | - 11                                    |                          | 293      |
| Exports - Exportations - Exportaciones  |                              |                             |  |                                 |                               |  |                                   |   |   |                             |     |  |                               |   |                          | - 15     |
| Stock - Stocks - Inventario (+/-)   |                              |                             | 1424   | 1526                            |                               |  |                                   |   | 67 395  |                             | 59  |  | 2                             | 277                                     |                          | 70 683   |
| <b>Supply - Approvisionnement - Oferta</b>  |                              |                             |  |                                 |                               |  |                                   |   |   |                             |     |  |                               |   |                          | - 7      |
| Differences - Ecarts - Diferencias  |                              |                             |  |                                 |                               |  |                                   |   |   |                             |     |  |                               |   |                          |          |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                             |  |                                 |                               |  |                                   |   |   |                             |     |  |                               |   |                          |          |
| Electricity - Électricité - Electrica   |                              |                             | - 1424   | - 1526                          |                               |  |                                   |   | - 239   |                             | - 2 |  |                               | 2 950                                   |                          | - 2      |
| CHP - Cogénération - Cogeneración   |                              |                             |  |                                 |                               |  |                                   |   | - 20 416  |                             |     |  |                               | 239                                     |                          | - 11 176 |
| Heat - Chaleur - Calor  |                              |                             |  |                                 |                               |  |                                   |   |   |                             |     |  |                               |   |                          |          |
| Charcoal - Charbon - Carbón   |                              |                             |  |                                 |                               |  |                                   |   |   |                             |     |  |                               |   |                          |          |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                             |  |                                 |                               |  |                                   |   |   |                             |     |  |                               |   |                          |          |
| Other - Autres - Otras  |                              |                             |  |                                 |                               |  |                                   |   |   |                             |     |  |                               |   |                          |          |
| Own use - Consomm. propre - Uso propio  |                              |                             |  |                                 |                               |  |                                   |   |   |                             |     |  |                               |   |                          |          |
| Distribution - Distribución - Distribución  |                              |                             |  |                                 |                               |  |                                   |   |   |                             |     |  |                               |   |                          | - 13     |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                             |  |                                 |                               |  |                                   |   |   |                             |     |  |                               |   |                          |          |
| Total - Total - Total   |                              |                             |  |                                 |                               |  |                                   |   | 46 739  | 2 971                       | 57  |  | 9 242                         | 3 446                                   |                          | 59 484   |
| Industry - Industrie - Industria  |                              |                             |  |                                 |                               |  |                                   |   |   |                             | 6   |  |                               | 1 358                                   |                          | 4 334    |
| Transport - Transport - Transporte  |                              |                             |  |                                 |                               |  |                                   |   |   |                             |     |  |                               |   |                          |          |
| Commerce - Commerce - Comercial   |                              |                             |  |                                 |                               |  |                                   |   |   |                             |     |  |                               |   |                          | 712      |
| Residential - Résidentiel - Residencial   |                              |                             |  |                                 |                               |  |                                   |   |   |                             |     |  |                               |   |                          | 54 382   |
| Other - Autres - Otros  |                              |                             |  |                                 |                               |  |                                   |   |   |                             |     |  |                               |   |                          | 56       |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                             |  |                                 |                               |  |                                   |   |   |                             |     |  |                               |   |                          |          |
| Total - Total - Total   |                              |                             | 1539   | 1649                            |                               |  |                                   |   | 46 998  | 259                         | 57  |  | 9 242                         |   |                          | 59 484   |
| Electricity - Électricité - Electrica   |                              |                             | 1539   | 1649                            |                               |  |                                   |   |   |                             |     |  |                               |   |                          | 3 446    |
| Heat - Chaleur - Calor  |                              |                             |  |                                 |                               |  |                                   |   |   |                             |     |  |                               |   |                          | 56 038   |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                             |  |                                 |                               |  |                                   |   |   |                             |     |  |                               |   |                          |          |
| Electricity - Électricité - Electrica (in/en GWh)   |                              |                             | 396  | 424                             |                               |  |                                   |   | 67  |                             |     |  |                               |   |                          | 886      |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                             |  |                                 |                               |  |                                   |   |   |                             |     |  |                               |   |                          |          |
| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Eoliennes<br>Éolica | Solar - Solaire - Solar                                      |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primaires -<br>Biocombustibles primarios |                             |     | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbon | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total    |
|   |                              |                             | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica               | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás |     |  |                               |   |                          |          |
|   |                              |                             | <b>Primary energy - Énergie primaire - Energía primaaria</b> |                                 |                               |  |                                   |   |   |                             |     |  |                               |   |                          |          |
| Production - Production - Generación  |                              |                             | 1439   | 1369                            |                               |  |                                   |   | 67 204  | 0                           | 64  |  | 2                             | 184                                     |                          | 70 077   |
| Imports - Importations - Importaciones  |                              |                             |  |                                 | - 1                           |  |                                   |   |   |                             |     |  | - 7                           | - 16                                    |                          | 186      |
| Exports - Exportations - Exportaciones  |                              |                             |  |                                 |                               |  |                                   |   |   |                             |     |  |                               |   |                          | - 25     |
| Stock - Stocks - Inventario (+/-)   |                              |                             | 1439   | 1369                            |                               |  |                                   |   | 67 203  |                             | 64  |  | - 6                           | 168                                     |                          | 70 238   |
| <b>Supply - Approvisionnement - Oferta</b>  |                              |                             |  |                                 |                               |  |                                   |   |   |                             |     |  |                               |   |                          | - 8      |
| Differences - Ecarts - Diferencias  |                              |                             |  |                                 |                               |  |                                   |   |   |                             |     |  |                               |   |                          |          |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                             |  |                                 |                               |  |                                   |   |   |                             |     |  |                               |   |                          |          |
| Electricity - Électricité - Electrica   |                              |                             | - 1439   | - 1369                          |                               |  |                                   |   | - 239   |                             | - 2 |  |                               | 2 809                                   |                          | - 0      |
| CHP - Cogénération - Cogeneración   |                              |                             |  |                                 |                               |  |                                   |   | - 20 399  |                             |     |  |                               | 239                                     |                          | - 2      |
| Heat - Chaleur - Calor  |                              |                             |  |                                 |                               |  |                                   |   |   |                             |     |  |                               |   |                          | - 11 159 |
| Charcoal - Charbon - Carbón   |                              |                             |  |                                 |                               |  |                                   |   |   |                             |     |  |                               |   |                          |          |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                             |  |                                 |                               |  |                                   |   |   |                             |     |  |                               |   |                          |          |
| Other - Autres - Otras  |                              |                             |  |                                 |                               |  |                                   |   |   |                             |     |  |                               |   |                          |          |
| Own use - Consomm. propre - Uso propio  |                              |                             |  |                                 |                               |  |                                   |   |   |                             |     |  |                               |   |                          |          |
| Distribution - Distribución - Distribución  |                              |                             |  |                                 |                               |  |                                   |   |   |                             |     |  |                               |   |                          | - 16     |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                             |  |                                 |                               |  |                                   |   |   |                             |     |  |                               |   |                          |          |
| Total - Total - Total   |                              |                             |  |                                 |                               |  |                                   |   | 46 564  | 2 971                       | 62  |  | 9 234                         | 3 191                                   |                          | 59 052   |
| Industry - Industrie - Industria  |                              |                             |  |                                 |                               |  |                                   |   |   |                             | 6   |  |                               | 1 382                                   |                          | 4 359    |
| Transport - Transport - Transporte  |                              |                             |  |                                 |                               |  |                                   |   |   |                             |     |  |                               |   |                          |          |
| Commerce - Commerce - Comercial   |                              |                             |  |                                 |                               |  |                                   |   |   |                             |     |  |                               |   |                          | 798      |
| Residential - Résidentiel - Residencial   |                              |                             |  |                                 |                               |  |                                   |   |   |                             |     |  |                               |   |                          | 53 860   |
| Other - Autres - Otros  |                              |                             |  |                                 |                               |  |                                   |   |   |                             |     |  |                               |   |                          | 34       |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                             |  |                                 |                               |  |                                   |   |   |                             |     |  |                               |   |                          |          |
| Total - Total - Total   |                              |                             | 1507   | 1433                            |                               |  |                                   |   | 46 815  | 251                         | 62  |  | 9 234                         |   |                          | 59 052   |
| Electricity - Électricité - Electrica   |                              |                             | 1507   | 1433                            |                               |  |                                   |   |   |                             |     |  |                               |   |                          | 3 191    |
| Heat - Chaleur - Calor  |                              |                             |  |                                 |                               |  |                                   |   |   |                             |     |  |                               |   |                          |          |
| Direct use - Utilisation directe - Uso directo  |                              |                             |  |                                 |                               |  |                                   |   |   |                             |     |  |                               |   |                          | 55 860   |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                             |  |                                 |                               |  |                                   |   |   |                             |     |  |                               |   |                          |          |
| Electricity - Électricité - Electrica (in/en GWh)   |                              |                             | 400  | 380                             |                               |  |                                   |   | 67  |                             |     |  |                               |   |                          | 847      |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                             |  |                                 |                               |  |                                   |   |   |                             |     |  |                               |   |                          |          |

## Serbia

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar<br>Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |            |              | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Carbon<br>Carbon | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total          |                                 |  |  |                             |  |  |
|---|------------------------------|----------------------------|---|---------------------------------|--|-----------------------------------|---|---|------------|--------------|--|------------------------------|---|--------------------------|----------------|---------------------------------|--|--|-----------------------------|--|--|
|   |                              |                            |   |                                 |  |                                   |   | Solids - Solides<br>- Sólidos   |            |              |  |                              |   |                          |                |                                 |  |  |                             |  |  |
|   |                              |                            |   |                                 |  |                                   |   |   |            |              |  |                              |   |                          |                |                                 |  |  |                             |  |  |
| <b>Primary energy - Énergie primaire - Energía primaaria</b>  |                              |                            |   |                                 |  |                                   |   |   |            |              |  |                              |   |                          |                |                                 |  |  |                             |  |  |
| Production - Production - Generación  | 31 135                       | 3 418                      | 575   |                                 |  |                                   | 99  | 67 401  | 94         | 2 214        | 1 601  | 53                           | 8 537                                   |                          | 104 842        |                                 |  |  |                             |  |  |
| Imports - Importations - Importaciones  |                              |                            |   |                                 |  |                                   |   | - 189   | - 77       |              | - 580  | - 210                        | - 5 757                                 |                          | 10 474         |                                 |  |  |                             |  |  |
| Exports - Exportations - Exportaciones  |                              |                            |   |                                 |  |                                   |   | - 140   | 14         |              | - 283  | - 11                         |   |                          | - 6 763        |                                 |  |  |                             |  |  |
| Stock - Stocks - Inventario (+/-)   |                              |                            |   |                                 |  |                                   |   | 14  | 14         |              |  |                              |   |                          | - 265          |                                 |  |  |                             |  |  |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>31 135</b>                | <b>3 418</b>               | <b>575</b>  |                                 |  |                                   | <b>99</b>                                   | <b>67 465</b>   | <b>31</b>  | <b>2 214</b> | <b>739</b>                                       | <b>- 167</b>                 | <b>2 780</b>                            |                          | <b>108 288</b> |                                 |  |  |                             |  |  |
| Differences - Ecarts - Diferencias  |                              |                            |   |                                 |  |                                   |   | - 353   | - 7        |              |  |                              | - 146                                   |                          | - 500          |                                 |  |  |                             |  |  |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |   |                                 |  |                                   |   |   |            |              |  |                              |   |                          |                |                                 |  |  |                             |  |  |
| Electricity - Électricité - Electrica   | - 31 135                     | - 3 418                    | - 575   |                                 |  |                                   | - 99  | - 353   |            | - 1 411      | - 29   |                              | 35 127                                  |                          | - 593          |                                 |  |  |                             |  |  |
| CHP - Cogénération - Cogeneración   |                              |                            |   |                                 |  |                                   |   | - 404   |            |              |  |                              | 908                                     | 362                      | - 15           |                                 |  |  |                             |  |  |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |  |                                   |   | - 548   |            |              |  |                              |   | 417                      | - 349          |                                 |  |  |                             |  |  |
| Charcoal - Charbon - Carbón   |                              |                            |   |                                 |  |                                   |   | - 8 596   |            |              |  |                              |   |                          | - 2 846        |                                 |  |  |                             |  |  |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |   |                                 |  |                                   |   | - 0   |            |              |  |                              |   |                          |                |                                 |  |  |                             |  |  |
| Other - Autres - Otras  |                              |                            |   |                                 |  |                                   |   |   |            |              |  |                              |   |                          |                |                                 |  |  |                             |  |  |
| Own use - Consomm. propre - Uso propio  |                              |                            |   |                                 |  |                                   |   |   |            |              |  |                              |   |                          | - 5 186        |                                 |  |  |                             |  |  |
| Distribution - Distribution - Distribución  |                              |                            |   |                                 |  |                                   |   |   |            |              |  |                              |   |                          | - 4 291        |                                 |  |  |                             |  |  |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |   |                                 |  |                                   |   |   |            |              |  |                              |   |                          |                |                                 |  |  |                             |  |  |
| <b>Total - Total - Total</b>  |                              |                            |   |                                 |  |                                   |   | <b>57 211</b>   | <b>30</b>  | <b>803</b>   | <b>6 459</b>                                     | <b>31</b>                    | <b>29 290</b>                           | <b>684</b>               | <b>94 508</b>  |                                 |  |  |                             |  |  |
| Industry - Industrie - Industria  |                              |                            |   |                                 |  |                                   |   | 4 338   | 137        | 1988         | 30   | 9 652                        | 204                                     | 16 349                   |                |                                 |  |  |                             |  |  |
| Transport - Transport - Transporte  |                              |                            |   |                                 |  |                                   |   |   | 30         |              |  |                              | 395                                     |                          | 425            |                                 |  |  |                             |  |  |
| Commerce - Commerce - Comercial   |                              |                            |   |                                 |  |                                   |   | 498   | 115        | 389          | 1  | 5 352                        | 108                                     | 6 463                    |                |                                 |  |  |                             |  |  |
| Residential - Résidentiel - Residencial   |                              |                            |   |                                 |  |                                   |   | 52 335  | 551        | 4 042        | 0  | 13 522                       | 372                                     | 70 270                   |                |                                 |  |  |                             |  |  |
| Other - Autres - Otros  |                              |                            |   |                                 |  |                                   |   | 40  | 40         |              |  | 368                          |   | 1 000                    |                |                                 |  |  |                             |  |  |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |   |                                 |  |                                   |   |   |            |              |  |                              |   |                          |                |                                 |  |  |                             |  |  |
| <b>Total - Total - Total</b>  | <b>25 307</b>                | <b>2 778</b>               | <b>467</b>  |                                 |  |                                   | <b>74</b>                                   | <b>57 672</b>   | <b>30</b>  | <b>1 576</b> | <b>6 573</b>                                     | <b>31</b>                    |   |                          | <b>94 508</b>  |                                 |  |  |                             |  |  |
| Electricity - Électricité - Electrica   | 25 307                       | 2 778                      | 467   |                                 |  |                                   | 13  | 47  |            | 677          |  |                              |   |                          | <b>29 290</b>  |                                 |  |  |                             |  |  |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |  |                                   | 60  | 414   |            | 96           | 114  |                              |   |                          | <b>684</b>     |                                 |  |  |                             |  |  |
| Direct use - Utilisation directe - Uso directo  |                              |                            |   |                                 |  |                                   |   | 57 211  | 30         | 803          | 6 459  | 31                           |   |                          | <b>64 534</b>  |                                 |  |  |                             |  |  |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |   |                                 |  |                                   |   |   |            |              |  |                              |   |                          |                |                                 |  |  |                             |  |  |
| Electricity - Électricité - Electrica (in/en GWh)   | 8 649                        | 949                        | 160   |                                 |  |                                   | 5   | 16  |            | 231          |  |                              |   |                          | 10 010         |                                 |  |  |                             |  |  |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |   |                                 |  |                                   | 59  | 405   |            | 94           | 111  |                              |   |                          | 669            |                                 |  |  |                             |  |  |
| 2021 (In/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar<br>Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |            |              | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Carbon<br>Carbon | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total          |                                 |  |  |                             |  |  |
|   |                              |                            |   |                                 |  |                                   |   | Solids - Solides<br>- Sólidos   |            |              |  |                              |   |                          |                | Liquid - Liquides<br>- Líquidos |  |  | Biogas - Biogaz<br>- Biogás |  |  |
|   |                              |                            |   |                                 |  |                                   |   |   |            |              |  |                              |   |                          |                |                                 |  |  |                             |  |  |
| <b>Primary energy - Énergie primaire - Energía primaaria</b>  |                              |                            |   |                                 |  |                                   |   |   |            |              |  |                              |   |                          |                |                                 |  |  |                             |  |  |
| Production - Production - Generación  | 40 624                       | 3 904                      | 214   |                                 |  |                                   | 103   | 67 811  | 42         | 2 220        | 1 616  | 55                           | 8 325                                   |                          | 114 877        |                                 |  |  |                             |  |  |
| Imports - Importations - Importaciones  |                              |                            |   |                                 |  |                                   |   | - 132   | - 28       |              | - 1 162  | - 278                        | - 7 549                                 |                          | 10 171         |                                 |  |  |                             |  |  |
| Exports - Exportations - Exportaciones  |                              |                            |   |                                 |  |                                   |   | - 273   | - 14       |              | 374  | 11                           |   |                          | - 9 290        |                                 |  |  |                             |  |  |
| Stock - Stocks - Inventario (+/-)   |                              |                            |   |                                 |  |                                   |   | 1 667   |            |              |  |                              |   |                          | 2 038          |                                 |  |  |                             |  |  |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>40 624</b>                | <b>3 904</b>               | <b>214</b>  |                                 |  |                                   | <b>103</b>                                  | <b>69 338</b>   | <b>- 0</b> | <b>2 220</b> | <b>829</b>                                       | <b>- 213</b>                 | <b>776</b>                              |                          | <b>117 796</b> |                                 |  |  |                             |  |  |
| Differences - Ecarts - Diferencias  |                              |                            |   |                                 |  |                                   |   | - 352   | 0          |              |  |                              | - 55                                    |                          | - 408          |                                 |  |  |                             |  |  |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |   |                                 |  |                                   |   |   |            |              |  |                              |   |                          |                |                                 |  |  |                             |  |  |
| Electricity - Électricité - Electrica   | - 40 624                     | - 3 904                    | - 214   |                                 |  |                                   | - 103                                       | - 352   |            | - 1 387      | - 52   |                              | 44 742                                  |                          | - 568          |                                 |  |  |                             |  |  |
| CHP - Cogénération - Cogeneración   |                              |                            |   |                                 |  |                                   |   | - 181   |            |              |  |                              | 890                                     | 385                      | - 47           |                                 |  |  |                             |  |  |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |  |                                   |   | - 505   |            |              |  |                              |   | 186                      | - 274          |                                 |  |  |                             |  |  |
| Charcoal - Charbon - Carbón   |                              |                            |   |                                 |  |                                   |   | - 7 828   |            |              |  |                              | 5 976                                   |                          | - 1 853        |                                 |  |  |                             |  |  |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |   |                                 |  |                                   |   | - 2   |            |              |  |                              | - 0                                     |                          |                |                                 |  |  |                             |  |  |
| Other - Autres - Otras  |                              |                            |   |                                 |  |                                   |   |   |            |              |  |                              |   |                          |                |                                 |  |  |                             |  |  |
| Own use - Consomm. propre - Uso propio  |                              |                            |   |                                 |  |                                   |   |   |            |              |  |                              |   |                          |                |                                 |  |  |                             |  |  |
| Distribution - Distribution - Distribución  |                              |                            |   |                                 |  |                                   |   |   |            |              |  |                              |   |                          |                |                                 |  |  |                             |  |  |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |   |                                 |  |                                   |   |   |            |              |  |                              |   |                          |                |                                 |  |  |                             |  |  |
| <b>Total - Total - Total</b>  |                              |                            |   |                                 |  |                                   |   | <b>60 119</b>   | <b>145</b> | <b>833</b>   | <b>6 752</b>                                     | <b>18</b>                    | <b>34 807</b>                           | <b>499</b>               | <b>103 028</b> |                                 |  |  |                             |  |  |
| Industry - Industrie - Industria  |                              |                            |   |                                 |  |                                   |   | 5 045   |            | 2 147        | 17   | 11 181                       | 127                                     | 18 663                   |                |                                 |  |  |                             |  |  |
| Transport - Transport - Transporte  |                              |                            |   |                                 |  |                                   |   |   |            |              |  |                              | 458                                     |                          | 458            |                                 |  |  |                             |  |  |
| Commerce - Commerce - Comercial   |                              |                            |   |                                 |  |                                   |   | 418   | 142        | 427          | 1  | 6 199                        | 79                                      | 7 267                    |                |                                 |  |  |                             |  |  |
| Residential - Résidentiel - Residencial   |                              |                            |   |                                 |  |                                   |   | 54 616  | 4136       | 4 136        | 0  | 16 541                       | 293                                     | 75 586                   |                |                                 |  |  |                             |  |  |
| Other - Autres - Otros  |                              |                            |   |                                 |  |                                   |   | 39  | 547        | 41           |  |                              | 427                                     |                          | 1 054          |                                 |  |  |                             |  |  |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |   |                                 |  |                                   |   |   |            |              |  |                              |   |                          |                |                                 |  |  |                             |  |  |
| <b>Total - Total - Total</b>  | <b>30 986</b>                | <b>2 978</b>               | <b>163</b>  |                                 |  |                                   | <b>78</b>                                   | <b>60 414</b>   |            | <b>1 557</b> | <b>6 832</b>                                     | <b>18</b>                    |   |                          | <b>103 028</b> |                                 |  |  |                             |  |  |
| Electricity - Électricité - Electrica   | 30 986                       | 2 978                      | 163   |                                 |  |                                   | 12  | 42  |            | 625          | 80   |                              |   |                          | <b>34 807</b>  |                                 |  |  |                             |  |  |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |  |                                   | 66  | 254   |            | 99           |  |                              |   |                          | <b>499</b>     |                                 |  |  |                             |  |  |
| Direct use - Utilisation directe - Uso directo  |                              |                            |   |                                 |  |                                   |   | 60 119  | 833        | 6 752        | 18   |                              |   |                          | <b>67 722</b>  |                                 |  |  |                             |  |  |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |   |                                 |  |                                   |   |   |            |              |  |                              |   |                          |                |                                 |  |  |                             |  |  |
| Electricity - Électricité - Electrica (in/en GWh)   | 11 284                       | 1 085                      | 59  |                                 |  |                                   | 4   | 15  |            | 228          |  |                              |   |                          | <b>12 676</b>  |                                 |  |  |                             |  |  |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |   |                                 |  |                                   | 65  | 250   |            | 98           | 79   |                              |   |                          | <b>492</b>     |                                 |  |  |                             |  |  |

## Seychelles

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Eoliennes<br>Eólica | Solar - Solaire - Solar                              |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios   |                                 |                             | Pellets/briq.<br>Granules/briq.<br>Pellets/briq.     | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total |
|---|------------------------------|-----------------------------|--|---------------------------------|--|-----------------------------------|---|---|---------------------------------|-----------------------------|--|-------------------------------|---|--------------------------|-------|
|   |                              |                             | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica       | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás |  |                               |   |                          |       |
|   |                              |                             | Primary energy - Énergie primaire - Energía primaria |                                 |  |                                   |   |   |                                 |                             | Primary energy - Énergie primaire - Energía primaria |                               |   |                          |       |
| Production - Production - Generación  |                              |                             | 24   | 71                              |  |                                   |   |   |                                 | 36                          |  |                               |   |                          | 131   |
| Imports - Importations - Importaciones  |                              |                             |  |                                 |  |                                   |   |   |                                 |                             |  | 3                             |   |                          | 3     |
| Exports - Exportations - Exportaciones  |                              |                             |  |                                 |  |                                   |   |   |                                 |                             |  | - 6                           |   |                          | - 6   |
| Stock - Stocks - Inventario (+/-)   |                              |                             | 24   | 71                              |  |                                   |   |   |                                 | 36                          |  |                               | - 3                                     |                          | 128   |
| <b>Supply - Approvisionnement - Oferta</b>  |                              |                             |  |                                 |  |                                   |   |   |                                 | - 36                        |  |                               | 3                                       |                          | - 34  |
| Differences - Ecarts - Diferencias  |                              |                             |  |                                 |  |                                   |   |   |                                 |                             |  | 3                             |   | - 1                      |       |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                             |  |                                 |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                                 |                             |  |                               |   |                          |       |
| Electricity - Électricité - Electrica   |                              |                             | - 24   | - 71                            |  |                                   |   |   |                                 |                             |  |                               | 95                                      |                          | - 0   |
| CHP - Cogénération - Cogeneración   |                              |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |       |
| Heat - Chaleur - Calor  |                              |                             |  |                                 |  |                                   |   |   |                                 |                             |  | - 3                           |   |                          | - 3   |
| Charcoal - Charbon - Carbón   |                              |                             |  |                                 |  |                                   |   |   |                                 |                             |  | - 7                           |   |                          | - 7   |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |       |
| Other - Autres - Otras  |                              |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |       |
| Own use - Consomm. propre - Uso propio  |                              |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |       |
| Distribution - Distribution - Distribución  |                              |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |       |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                             |  |                                 |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                                 |                             |  |                               |   |                          |       |
| <b>Total - Total - Total</b>  |                              |                             |  |                                 |  |                                   |   |   |                                 |                             |  | 85                            |   |                          | 85    |
| Industry - Industrie - Industria  |                              |                             |  |                                 |  |                                   |   |   |                                 |                             |  | 18                            |   |                          | 18    |
| Transport - Transport - Transporte  |                              |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |       |
| Commerce - Commerce - Comercial   |                              |                             |  |                                 |  |                                   |   |   |                                 |                             |  | 38                            |   |                          | 38    |
| Residential - Résidentiel - Residencial   |                              |                             |  |                                 |  |                                   |   |   |                                 |                             |  | 29                            |   |                          | 29    |
| Other - Autres - Otros  |                              |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |       |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                             |  |                                 |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                                 |                             |  |                               |   |                          |       |
| <b>Total - Total - Total</b>  |                              |                             | 21   | 64                              |  |                                   |   |   |                                 |                             |  | 85                            |   |                          | 85    |
| Electricity - Électricité - Electrica   |                              |                             | 21   | 64                              |  |                                   |   |   |                                 |                             |  |                               |   |                          |       |
| Heat - Chaleur - Calor  |                              |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |       |
| Direct use - Utilisation directe - Uso directo  |                              |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |       |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                             |  |                                 |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                                 |                             |  |                               |   |                          |       |
| Electricity - Électricité - Electrica (in/en GWh)   |                              |                             | 7  | 20                              |  |                                   |   |   |                                 |                             |  |                               |   |                          | 26    |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |       |
| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Eoliennes<br>Eólica | Solar - Solaire - Solar                              |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios   |                                 |                             | Pellets/briq.<br>Granules/briq.<br>Pellets/briq.     | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total |
|   |                              |                             | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica       | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás |  |                               |   |                          |       |
|   |                              |                             | Primary energy - Énergie primaire - Energía primaria |                                 |  |                                   |   |   |                                 |                             | Primary energy - Énergie primaire - Energía primaria |                               |   |                          |       |
| Production - Production - Generación  |                              |                             | 18   | 70                              |  |                                   |   |   |                                 | 36                          |  |                               |   |                          | 124   |
| Imports - Importations - Importaciones  |                              |                             |  |                                 |  |                                   |   |   |                                 |                             |  | 1                             |   |                          | 1     |
| Exports - Exportations - Exportaciones  |                              |                             | 18   | 70                              |  |                                   |   |   |                                 | 36                          |  | - 0                           |   |                          | - 0   |
| Stock - Stocks - Inventario (+/-)   |                              |                             |  |                                 |  |                                   |   |   |                                 | - 36                        |  | 1                             |   |                          | 125   |
| <b>Supply - Approvisionnement - Oferta</b>  |                              |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          | - 37  |
| Differences - Ecarts - Diferencias  |                              |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |       |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                             |  |                                 |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                                 |                             |  |                               |   |                          |       |
| Electricity - Électricité - Electrica   |                              |                             | - 18   | - 70                            |  |                                   |   |   |                                 |                             |  | 88                            |   |                          | 0     |
| CHP - Cogénération - Cogeneración   |                              |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |       |
| Heat - Chaleur - Calor  |                              |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |       |
| Charcoal - Charbon - Carbón   |                              |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |       |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |       |
| Other - Autres - Otras  |                              |                             |  |                                 |  |                                   |   |   |                                 |                             |  | - 3                           |   |                          | - 3   |
| Own use - Consomm. propre - Uso propio  |                              |                             |  |                                 |  |                                   |   |   |                                 |                             |  | - 10                          |   |                          | - 10  |
| Distribution - Distribution - Distribución  |                              |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |       |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                             |  |                                 |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                                 |                             |  |                               |   |                          |       |
| <b>Total - Total - Total</b>  |                              |                             |  |                                 |  |                                   |   |   |                                 |                             |  | 1                             | 75                                      |                          | 76    |
| Industry - Industrie - Industria  |                              |                             |  |                                 |  |                                   |   |   |                                 |                             |  | 16                            |   |                          | 16    |
| Transport - Transport - Transporte  |                              |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               | 32                                      |                          | 32    |
| Commerce - Commerce - Comercial   |                              |                             |  |                                 |  |                                   |   |   |                                 |                             |  | 1                             | 27                                      |                          | 28    |
| Residential - Résidentiel - Residencial   |                              |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |       |
| Other - Autres - Otros  |                              |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |       |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                             |  |                                 |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                                 |                             |  |                               |   |                          |       |
| <b>Total - Total - Total</b>  |                              |                             | 15   | 59                              |  |                                   |   |   |                                 |                             |  | 1                             |   |                          | 76    |
| Electricity - Électricité - Electrica   |                              |                             | 15   | 59                              |  |                                   |   |   |                                 |                             |  |                               |   |                          | 75    |
| Heat - Chaleur - Calor  |                              |                             |  |                                 |  |                                   |   |   |                                 |                             |  | 1                             |   |                          | 1     |
| Direct use - Utilisation directe - Uso directo  |                              |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |       |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                             |  |                                 |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                                 |                             |  |                               |   |                          |       |
| Electricity - Électricité - Electrica (in/en GWh)   |                              |                             | 5  | 19                              |  |                                   |   |   |                                 |                             |  |                               |   |                          | 24    |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                             |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |       |

## Sierra Leone

## Sierra Leone

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Eoliennes<br>Éolica | Solar - Solaire - Solar                               |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primaires -<br>Biocombustibles primarios   |                             |  | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Electricidad | Heat<br>Chaleur<br>Calor | Total         |     |
|---|------------------------------|-----------------------------|---|---------------------------------|-------------------------------|--|-----------------------------------|---|---|-----------------------------|--|--|-------------------------------|--|--------------------------|---------------|-----|
|   |                              |                             | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás |  |  |                               |  |                          |               |     |
|   |                              |                             | Primary energy - Énergie primaire - Energía primaaria |                                 |                               |  |                                   |   | Primary energy - Énergie primaire - Energía primaaria   |                             |  |  |                               |  |                          |               |     |
| Production - Production - Generación  | 821                          |                             |   | 76                              |                               |  |                                   |   | 69 761  |                             |  |  |                               | 1  |                          | 70 659        |     |
| Imports - Importations - Importaciones  |                              |                             |   |                                 |                               |  |                                   | - 1   |   |                             |  |  |                               | - 2  |                          | 1             |     |
| Exports - Exportations - Exportaciones  |                              |                             |   |                                 |                               |  |                                   |   | 69 760  |                             |  |  |                               | - 2  |                          | - 4           |     |
| Stock - Stocks - Inventario (+/-)   |                              |                             |   | 76                              |                               |  |                                   |   |   |                             |  |  |                               |  |                          | 70 656        |     |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>821</b>                   |                             |   | <b>76</b>                       |                               |  |                                   |   |   |                             |  |  |                               |  |                          | <b>- 104</b>  |     |
| Differences - Ecarts - Diferencias  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |  |                          |               |     |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                             |   |                                 |                               |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                             |  |  |                               |  |                          |               |     |
| Electricity - Électricité - Electrica   | - 821                        |                             |   | - 76                            |                               |  |                                   |   | - 34  |                             |  |  |                               | 898  |                          |               |     |
| CHP - Cogénération - Cogeneración   |                              |                             |   |                                 |                               |  |                                   |   | - 34 335  |                             |  |  |                               | 34   |                          | 0             |     |
| Heat - Chaleur - Calor  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               | 15 543                                     |                          |               |     |
| Charcoal - Charbon - Carbón   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |  |                          | - 18 792      |     |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |  |                          |               |     |
| Other - Autres - Otras  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |  |                          |               |     |
| Own use - Consomm. propre - Uso propio  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |  |                          |               |     |
| Distribution - Distribution - Distribución  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |  |                          |               |     |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                             |   |                                 |                               |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                             |  |  |                               |  |                          |               |     |
| <b>Total - Total - Total</b>  |                              |                             |   |                                 |                               |  |                                   |   | <b>35 391</b>   |                             |  |  |                               | <b>15 541</b>                              |                          | <b>51 760</b> |     |
| Industry - Industrie - Industria  |                              |                             |   |                                 |                               |  |                                   |   | 181   |                             |  |  |                               | 349  |                          | 530           |     |
| Transport - Transport - Transporte  |                              |                             |   |                                 |                               |  |                                   |   | 35 210  |                             |  |  |                               | 246  |                          |               |     |
| Commerce - Commerce - Comercial   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               | 232  |                          | 35 442        |     |
| Residential - Résidentiel - Residencial   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               | 15 541                                     |                          | 15 541        |     |
| Other - Autres - Otros  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |  |                          |               |     |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                             |   |                                 |                               |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                             |  |  |                               |  |                          |               |     |
| <b>Total - Total - Total</b>  | <b>730</b>                   |                             |   | <b>68</b>                       |                               |  |                                   |   | <b>35 421</b>   |                             |  |  |                               | <b>15 541</b>                              |                          | <b>51 760</b> |     |
| Electricity - Électricité - Electrica   | 730                          |                             |   | 68                              |                               |  |                                   |   | 30  |                             |  |  |                               | 15 541                                     |                          | 828           |     |
| Heat - Chaleur - Calor  |                              |                             |   |                                 |                               |  |                                   |   | 35 391  |                             |  |  |                               | 15 541                                     |                          | 50 932        |     |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                             |   |                                 |                               |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                             |  |  |                               |  |                          |               |     |
| Electricity - Électricité - Electrica (in/en GWh)   | 228                          |                             |   | 21                              |                               |  |                                   |   | 10  |                             |  |  |                               |  |                          |               | 259 |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |  |                          |               |     |
| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Eoliennes<br>Éolica | Solar - Solaire - Solar                               |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primaires -<br>Biocombustibles primarios   |                             |  | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Electricidad | Heat<br>Chaleur<br>Calor | Total         |     |
|   |                              |                             | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás |  |  |                               |  |                          |               |     |
|   |                              |                             | Primary energy - Énergie primaire - Energía primaaria |                                 |                               |  |                                   |   | Primary energy - Énergie primaire - Energía primaaria   |                             |  |  |                               |  |                          |               |     |
| Production - Production - Generación  | 821                          |                             |   | 74                              |                               |  |                                   |   | 69 135  |                             |  |  |                               | 0  |                          | 70 031        |     |
| Imports - Importations - Importaciones  |                              |                             |   |                                 |                               |  |                                   | - 1   |   |                             |  |  |                               | - 2  |                          | 0             |     |
| Exports - Exportations - Exportaciones  |                              |                             |   |                                 |                               |  |                                   |   | 69 133  |                             |  |  |                               | - 2  |                          | - 3           |     |
| Stock - Stocks - Inventario (+/-)   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |  |                          | 70 028        |     |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>821</b>                   |                             |   | <b>74</b>                       |                               |  |                                   |   |   |                             |  |  |                               |  |                          | <b>- 102</b>  |     |
| Differences - Ecarts - Diferencias  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |  |                          |               |     |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                             |   |                                 |                               |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                             |  |  |                               |  |                          |               |     |
| Electricity - Électricité - Electrica   | - 821                        |                             |   | - 74                            |                               |  |                                   |   | - 33  |                             |  |  |                               | 896  |                          |               |     |
| CHP - Cogénération - Cogeneración   |                              |                             |   |                                 |                               |  |                                   |   | - 33 587  |                             |  |  |                               | 33   |                          |               |     |
| Heat - Chaleur - Calor  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               | 15 204                                     |                          | - 18 383      |     |
| Charcoal - Charbon - Carbón   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |  |                          |               |     |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |  |                          |               |     |
| Other - Autres - Otras  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |  |                          |               |     |
| Own use - Consomm. propre - Uso propio  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |  |                          |               |     |
| Distribution - Distribution - Distribución  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |  |                          |               |     |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                             |   |                                 |                               |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                             |  |  |                               |  |                          |               |     |
| <b>Total - Total - Total</b>  |                              |                             |   |                                 |                               |  |                                   |   | <b>35 513</b>   |                             |  |  |                               | <b>15 202</b>                              |                          | <b>51 542</b> |     |
| Industry - Industrie - Industria  |                              |                             |   |                                 |                               |  |                                   |   | 181   |                             |  |  |                               | 348  |                          | 529           |     |
| Transport - Transport - Transporte  |                              |                             |   |                                 |                               |  |                                   |   | 35 332  |                             |  |  |                               | 245  |                          |               |     |
| Commerce - Commerce - Comercial   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               | 234  |                          | 245           |     |
| Residential - Résidentiel - Residencial   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               | 15 202                                     |                          | 35 565        |     |
| Other - Autres - Otros  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |  |                          | 15 202        |     |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                             |   |                                 |                               |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                             |  |  |                               |  |                          |               |     |
| <b>Total - Total - Total</b>  | <b>731</b>                   |                             |   | <b>66</b>                       |                               |  |                                   |   | <b>35 543</b>   |                             |  |  |                               | <b>15 202</b>                              |                          | <b>51 542</b> |     |
| Electricity - Électricité - Electrica   | 731                          |                             |   | 66                              |                               |  |                                   |   | 30  |                             |  |  |                               | 15 202                                     |                          | 827           |     |
| Heat - Chaleur - Calor  |                              |                             |   |                                 |                               |  |                                   |   | 35 513  |                             |  |  |                               | 15 202                                     |                          | 50 715        |     |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                             |   |                                 |                               |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                             |  |  |                               |  |                          |               |     |
| Electricity - Électricité - Electrica (in/en GWh)   | 228                          |                             |   | 21                              |                               |  |                                   |   | 9   |                             |  |  |                               |  |                          |               | 258 |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |  |  |                               |  |                          |               |     |

## Singapore

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                               |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios   |                                 |                             | Pellets/briq.<br>Granules/briq.<br>Pellets/briq.      | Charcoal<br>Carbon<br>Carbon | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total |                              |       |
|---|------------------------------|----------------------------|---|---------------------------------|--|-----------------------------------|---|---|---------------------------------|-----------------------------|---|------------------------------|---|--------------------------|-------|------------------------------|-------|
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás |   |                              |   |                          |       |                              |       |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaaria |                                 |  |                                   |   |   |                                 |                             | Primary energy - Énergie primaire - Energía primaaria |                              |   |                          |       |                              |       |
| Production - Production - Generación  | 0                            | 1                          | 2 693   |                                 |  |                                   |   | 13 934  | 3 580                           | 1 479<br>21<br>- 38         |   | 44<br>- 8                    | 290<br>- 32                             |                          |       | 21 687<br>355<br>- 78        |       |
| Imports - Importations - Importaciones  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |   |                          |       |                              |       |
| Exports - Exportations - Exportaciones  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |   |                          |       |                              |       |
| Stock - Stocks - Inventario (+/-)   |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |   |                          |       |                              |       |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>0</b>                     | <b>1</b>                   | <b>2 693</b>  |                                 |  |                                   |   | <b>13 934</b>   | <b>3 580</b>                    | <b>1 462</b>                |   | <b>36</b>                    | <b>257</b>                              |                          |       | <b>21 963</b><br><b>- 73</b> |       |
| Differences - Ecarts - Diferencias  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |   |                          |       |                              |       |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |   |                                 |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                                 |                             |   |                              |   |                          |       |                              |       |
| Electricity - Électricité - Electrica   | - 0                          | - 1                        | - 2 693   |                                 |  |                                   |   | - 13 934  | - 3 509                         |                             |   |                              |   | 6 189                    |       | - 13 947                     |       |
| CHP - Cogénération - Cogeneración   |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |   |                          |       |                              |       |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |   |                          |       | - 39                         |       |
| Charcoal - Charbon - Carbón   |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |   |                          |       |                              |       |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |   |                          |       |                              |       |
| Other - Autres - Otras  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |   |                          |       |                              |       |
| Own use - Consomm. propre - Uso propio  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |   |                          |       |                              |       |
| Distribution - Distribution - Distribución  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |   |                          |       | - 169                        |       |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |   |                                 |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                                 |                             |   |                              |   |                          |       |                              |       |
| <b>Total - Total - Total</b>  |                              |                            |   |                                 |  |                                   |   |   | 9                               |                             |   | <b>36</b>                    | <b>290</b>                              | <b>5 948</b>             |       | <b>6 284</b>                 |       |
| Industry - Industrie - Industria  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   | 36                           | 290                                     | 2 459                    |       | 2 495                        |       |
| Transport - Transport - Transporte  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   | 8                            |   | 314                      |       | 322                          |       |
| Commerce - Commerce - Comercial   |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |   | 145                      | 2 296 | 2 441                        |       |
| Residential - Résidentiel - Residencial   |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   | 2                            | 145                                     | 857                      |       | 1 002                        |       |
| Other - Autres - Otros  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |   | 22                       |       | 23                           |       |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |   |                                 |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                                 |                             |   |                              |   |                          |       |                              |       |
| <b>Total - Total - Total</b>  | <b>0</b>                     | <b>1</b>                   | <b>2 588</b>  |                                 |  |                                   |   | <b>2 766</b>  | <b>593</b>                      | <b>9</b>                    |   | <b>36</b>                    | <b>290</b>                              | <b>5 948</b>             |       | <b>6 284</b>                 |       |
| Electricity - Électricité - Electrica   | 0                            | 1                          | 2 588   |                                 |  |                                   |   | 2 766   | 593                             | 9                           |   | 36                           | 290                                     | 5 948                    |       | 5 948                        |       |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   | 9                            | 36                                      | 290                      |       | 336                          |       |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |   |                                 |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                                 |                             |   |                              |   |                          |       |                              |       |
| Electricity - Électricité - Electrica (in/en GWh)   | 0                            | 0                          | 748   |                                 |  |                                   |   | 800   | 171                             |                             |   |                              |   |                          |       |                              | 1 719 |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |   |                          |       |                              |       |
| 2021 (In/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                               |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios   |                                 |                             | Pellets/briq.<br>Granules/briq.<br>Pellets/briq.      | Charcoal<br>Carbon<br>Carbon | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total |                              |       |
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás |   |                              |   |                          |       |                              |       |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaaria |                                 |  |                                   |   |   |                                 |                             | Primary energy - Énergie primaire - Energía primaaria |                              |   |                          |       |                              |       |
| Production - Production - Generación  | 0                            | 1                          | 2 005   |                                 |  |                                   |   | 11 658  | 3 914                           | 3 314<br>- 3 287            |   | 40<br>20                     | 259<br>- 210                            |                          |       | 20 892<br>299<br>- 3 517     |       |
| Imports - Importations - Importaciones  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |   |                          |       |                              |       |
| Exports - Exportations - Exportaciones  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |   |                          |       |                              |       |
| Stock - Stocks - Inventario (+/-)   |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |   |                          |       |                              |       |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>0</b>                     | <b>1</b>                   | <b>2 005</b>  |                                 |  |                                   |   | <b>11 658</b>   | <b>3 914</b>                    | <b>27</b>                   |   | <b>20</b>                    | <b>49</b>                               |                          |       | <b>17 675</b><br><b>- 37</b> |       |
| Differences - Ecarts - Diferencias  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |   |                          |       |                              |       |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |   |                                 |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                                 |                             |   |                              |   |                          |       |                              |       |
| Electricity - Électricité - Electrica   | - 0                          | - 1                        | - 2 005   |                                 |  |                                   |   | - 11 658  | - 3 450                         |                             |   |                              |   | 4 316                    |       | - 12 798                     |       |
| CHP - Cogénération - Cogeneración   |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |   |                          |       |                              |       |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |  |                                   |   |   | - 464                           |                             |   |                              |   | 210                      |       | - 254                        |       |
| Charcoal - Charbon - Carbón   |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |   |                          |       |                              |       |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |   |                          |       |                              |       |
| Other - Autres - Otras  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |   |                          |       |                              |       |
| Own use - Consomm. propre - Uso propio  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |   |                          |       |                              |       |
| Distribution - Distribution - Distribución  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |   |                          |       | - 141                        |       |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |   |                                 |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                                 |                             |   |                              |   |                          |       |                              |       |
| <b>Total - Total - Total</b>  |                              |                            |   |                                 |  |                                   |   |   | 6                               |                             | 20  | <b>259</b>                   | <b>4 138</b>                            |                          |       | <b>4 424</b>                 |       |
| Industry - Industrie - Industria  |                              |                            |   |                                 |  |                                   |   |   |                                 | 5                           |   |                              | 129                                     | 1 535                    |       | 1 745                        |       |
| Transport - Transport - Transporte  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             | 20  |                              | 129                                     | 640                      |       | 225                          |       |
| Commerce - Commerce - Comercial   |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   | 1                            | 129                                     | 18                       |       | 1 664                        |       |
| Residential - Résidentiel - Residencial   |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |   |                          |       | 770                          |       |
| Other - Autres - Otros  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |   |                          |       | 19                           |       |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |   |                                 |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                                 |                             |   |                              |   |                          |       |                              |       |
| <b>Total - Total - Total</b>  | <b>0</b>                     | <b>1</b>                   | <b>1 922</b>  |                                 |  |                                   |   | <b>1 444</b>  | <b>770</b>                      | <b>6</b>                    |   | <b>20</b>                    | <b>259</b>                              |                          |       | <b>4 424</b>                 |       |
| Electricity - Électricité - Electrica   | 0                            | 1                          | 1 922   |                                 |  |                                   |   | 1 444   | 770                             | 6                           |   | 20                           | 259                                     |                          |       | <b>4 138</b>                 |       |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   | 6                            | 20                                      |                          |       | <b>286</b>                   |       |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |   |                                 |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                                 |                             |   |                              |   |                          |       |                              |       |
| Electricity - Électricité - Electrica (in/en GWh)   | 0                            | 0                          | 557   |                                 |  |                                   |   | 418   | 223                             |                             |   |                              |   |                          |       |                              | 1 199 |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |   |                          |       |                              |       |

## Slovakia

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar<br>Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |              |              | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Carbon<br>Carbon | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total         |  |  |  |  |  |
|---|------------------------------|----------------------------|---|---------------------------------|--|-----------------------------------|---|---|--------------|--------------|--|------------------------------|---|--------------------------|---------------|--|--|--|--|--|
|   |                              |                            |   |                                 |  |                                   |   | Solids - Solides<br>- Sólidos   |              |              |  |                              |   |                          |               |  |  |  |  |  |
|   |                              |                            |   |                                 |  |                                   |   | Liquid - Liquides<br>- Líquidos   |              |              |  |                              |   |                          |               |  |  |  |  |  |
| <b>Primary energy - Énergie primaire - Energía primaria</b>   |                              |                            |   |                                 |  |                                   |   |   |              |              |  |                              |   |                          |               |  |  |  |  |  |
| Production - Production - Generación  | 13 241                       | 14                         | 2 340   | 384                             | 378                                      | 3 613                             | 1 422                                       | 57 906  | 7 408        | 4 305        |  | 29                           | 13 075                                  | 15                       | 91 012        |  |  |  |  |  |
| Imports - Importations - Importaciones  |                              |                            |   |                                 |  |                                   |   | 176   | 5 498        |              |  |                              | - 11 973                                |                          | 18 794        |  |  |  |  |  |
| Exports - Exportations - Exportaciones  |                              |                            |   |                                 |  |                                   |   | - 590   | - 5 737      |              |  |                              |   |                          | - 18 300      |  |  |  |  |  |
| Stock - Stocks - Inventario (+/-)   |                              |                            |   |                                 |  |                                   |   | - 463   | 4            |              |  |                              |   |                          | - 459         |  |  |  |  |  |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>13 241</b>                | <b>14</b>                  | <b>2 340</b>  | <b>384</b>                      | <b>378</b>                               | <b>3 613</b>                      | <b>1 422</b>                                | <b>57 029</b>   | <b>7 174</b> | <b>4 305</b> |  | <b>29</b>                    | <b>1103</b>                             | <b>15</b>                | <b>91 047</b> |  |  |  |  |  |
| Differences - Ecarts - Diferencias  |                              |                            |   |                                 |  |                                   |   |   |              |              |  |                              |   |                          |               |  |  |  |  |  |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |   |                                 |  |                                   |   |   |              |              |  |                              |   |                          |               |  |  |  |  |  |
| Electricity - Électricité - Electrica   | - 13 241                     | - 14                       | - 2 340   | - 2                             | - 348                                    | - 32                              | - 991                                       | - 155   |              |              |  | - 691                        |   |                          | - 558         |  |  |  |  |  |
| CHP - Cogénération - Cogeneración   |                              |                            |   |                                 |  |                                   |   | - 14 654  |              |              |  | - 2 712                      |   |                          | - 9 071       |  |  |  |  |  |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |  |                                   |   | - 2 820   |              |              |  | - 81                         |   |                          | - 860         |  |  |  |  |  |
| Charcoal - Charbon - Carbón   |                              |                            |   |                                 |  |                                   |   |   |              |              |  |                              |   |                          |               |  |  |  |  |  |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |   |                                 |  |                                   |   |   |              |              |  |                              |   |                          |               |  |  |  |  |  |
| Other - Autres - Otras  |                              |                            |   |                                 |  |                                   |   |   |              |              |  |                              |   |                          |               |  |  |  |  |  |
| Own use - Consomm. propre - Uso propio  |                              |                            |   |                                 |  |                                   |   |   |              |              |  |                              |   |                          |               |  |  |  |  |  |
| Distribution - Distribution - Distribución  |                              |                            |   |                                 |  |                                   |   |   |              |              |  |                              |   |                          |               |  |  |  |  |  |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |   |                                 |  |                                   |   |   |              |              |  |                              |   |                          |               |  |  |  |  |  |
| Total - Total - Total   |                              |                            |   | 380                             | 30                                       | 3 582                             | 431   | 39 370  | 7 174        | 821          |  | 29                           | 17 860                                  | 5 200                    | 74 877        |  |  |  |  |  |
| Industry - Industrie - Industria  |                              |                            |   |                                 |  |                                   |   | 13 859  |              | 7 174        |  |                              | 7 751                                   | 611                      | 22 317        |  |  |  |  |  |
| Transport - Transport - Transporte  |                              |                            |   | 38                              |  | 488                               |   | 276   |              |              |  |                              | 521                                     |                          | 7 695         |  |  |  |  |  |
| Commerce - Commerce - Comercial   |                              |                            |   | 342                             |  | 3 005                             |   | 24 890  |              | 265          |  |                              | 4 835                                   | 1 283                    | 7 616         |  |  |  |  |  |
| Residential - Résidentiel - Residencial   |                              |                            |   |                                 |  |                                   |   | 345   |              |              |  |                              | 4 601                                   | 3 291                    | 36 157        |  |  |  |  |  |
| Other - Autres - Otros  |                              |                            |   |                                 |  |                                   |   |   |              |              |  |                              | 153                                     | 16                       | 1 092         |  |  |  |  |  |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |   |                                 |  |                                   |   |   |              |              |  |                              |   |                          |               |  |  |  |  |  |
| <b>Total - Total - Total</b>  | <b>11 283</b>                | <b>12</b>                  | <b>1 994</b>  | <b>382</b>                      | <b>166</b>                               | <b>3 621</b>                      | <b>663</b>                                  | <b>47 157</b>   | <b>7 174</b> | <b>2 396</b> |  | <b>29</b>                    |   |                          | <b>74 877</b> |  |  |  |  |  |
| Electricity - Électricité - Electrica   | 11 283                       | 12                         | 1 994   |                                 |  |                                   |   | 153   | 3 218        |              |  |                              | 1 199                                   |                          | 17 860        |  |  |  |  |  |
| Heat - Chaleur - Calor  |                              |                            |   | 2                               | 136                                      | 39                                | 78  | 4 569   |              |              |  |                              | 376                                     |                          | 5 200         |  |  |  |  |  |
| Direct use - Utilisation directe - Uso directo  |                              |                            |   | 380                             | 30                                       | 3 582                             | 431   | 39 370  | 7 174        | 821          |  |                              | 29                                      |                          | 51 817        |  |  |  |  |  |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |   |                                 |  |                                   |   |   |              |              |  |                              |   |                          |               |  |  |  |  |  |
| Electricity - Électricité - Electrica (in/en GWh)   | 3 678                        | 4                          | 650   | 2                               | 174                                      | 50                                | 100   | 1 049   |              |              |  |                              | 391                                     |                          | 5 822         |  |  |  |  |  |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |   |                                 |  |                                   |   | 5 828   |              |              |  |                              | 479                                     |                          | 6 633         |  |  |  |  |  |
| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar<br>Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |              |              | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Carbon<br>Carbon | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total         |  |  |  |  |  |
|   |                              |                            |   |                                 |  |                                   |   | Solids - Solides<br>- Sólidos   |              |              |  |                              |   |                          |               |  |  |  |  |  |
|   |                              |                            |   |                                 |  |                                   |   | Liquid - Liquides<br>- Líquidos   |              |              |  |                              |   |                          |               |  |  |  |  |  |
| <b>Primary energy - Énergie primaire - Energía primaria</b>   |                              |                            |   |                                 |  |                                   |   |   |              |              |  |                              |   |                          |               |  |  |  |  |  |
| Production - Production - Generación  | 13 241                       | 14                         | 2 340   | 384                             | 378                                      | 3 613                             | 1 422                                       | 57 906  | 7 408        | 4 305        |  | 29                           | 13 075                                  | 15                       | 91 012        |  |  |  |  |  |
| Imports - Importations - Importaciones  |                              |                            |   |                                 |  |                                   |   | 176   | 5 498        |              |  |                              | - 11 973                                |                          | 18 794        |  |  |  |  |  |
| Exports - Exportations - Exportaciones  |                              |                            |   |                                 |  |                                   |   | - 590   | - 5 737      |              |  |                              |   |                          | - 18 300      |  |  |  |  |  |
| Stock - Stocks - Inventario (+/-)   |                              |                            |   |                                 |  |                                   |   | - 463   | 4            |              |  |                              |   |                          | - 459         |  |  |  |  |  |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>13 241</b>                | <b>14</b>                  | <b>2 340</b>  | <b>384</b>                      | <b>378</b>                               | <b>3 613</b>                      | <b>1 422</b>                                | <b>57 029</b>   | <b>7 174</b> | <b>4 305</b> |  | <b>29</b>                    | <b>1103</b>                             | <b>15</b>                | <b>91 047</b> |  |  |  |  |  |
| Differences - Ecarts - Diferencias  |                              |                            |   |                                 |  |                                   |   |   |              |              |  |                              |   |                          |               |  |  |  |  |  |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |   |                                 |  |                                   |   |   |              |              |  |                              |   |                          |               |  |  |  |  |  |
| Electricity - Électricité - Electrica   | - 13 241                     | - 14                       | - 2 340   | - 2                             | - 348                                    | - 32                              | - 991                                       | - 155   |              |              |  | - 691                        |   |                          | - 558         |  |  |  |  |  |
| CHP - Cogénération - Cogeneración   |                              |                            |   |                                 |  |                                   |   | - 14 654  |              |              |  | - 2 712                      |   |                          | - 9 071       |  |  |  |  |  |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |  |                                   |   | - 2 820   |              |              |  | - 81                         |   |                          | - 860         |  |  |  |  |  |
| Charcoal - Charbon - Carbón   |                              |                            |   |                                 |  |                                   |   |   |              |              |  |                              |   |                          |               |  |  |  |  |  |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |   |                                 |  |                                   |   |   |              |              |  |                              |   |                          |               |  |  |  |  |  |
| Other - Autres - Otras  |                              |                            |   |                                 |  |                                   |   |   |              |              |  |                              |   |                          |               |  |  |  |  |  |
| Own use - Consomm. propre - Uso propio  |                              |                            |   |                                 |  |                                   |   |   |              |              |  |                              |   |                          |               |  |  |  |  |  |
| Distribution - Distribution - Distribución  |                              |                            |   |                                 |  |                                   |   |   |              |              |  |                              |   |                          |               |  |  |  |  |  |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |   |                                 |  |                                   |   |   |              |              |  |                              |   |                          |               |  |  |  |  |  |
| Total - Total - Total   |                              |                            |   | 380                             | 30                                       | 3 582                             | 431   | 39 370  | 7 174        | 821          |  | 29                           | 17 860                                  | 5 200                    | 74 877        |  |  |  |  |  |
| Industry - Industrie - Industria  |                              |                            |   |                                 |  |                                   |   | 13 859  |              | 7 174        |  |                              | 7 751                                   | 611                      | 22 317        |  |  |  |  |  |
| Transport - Transport - Transporte  |                              |                            |   | 38                              |  | 488                               |   | 276   |              | 265          |  |                              | 521                                     |                          | 7 695         |  |  |  |  |  |
| Commerce - Commerce - Comercial   |                              |                            |   | 342                             |  | 3 005                             |   | 24 890  |              |              |  |                              | 4 835                                   | 1 283                    | 7 616         |  |  |  |  |  |
| Residential - Résidentiel - Residencial   |                              |                            |   |                                 |  |                                   |   | 345   |              | 548          |  |                              | 4 601                                   | 3 291                    | 36 157        |  |  |  |  |  |
| Other - Autres - Otros  |                              |                            |   |                                 |  |                                   |   |   |              |              |  |                              | 153                                     | 16                       | 1 092         |  |  |  |  |  |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |   |                                 |  |                                   |   |   |              |              |  |                              |   |                          |               |  |  |  |  |  |
| <b>Total - Total - Total</b>  | <b>11 283</b>                | <b>12</b>                  | <b>1 994</b>  | <b>382</b>                      | <b>166</b>                               | <b>3 621</b>                      | <b>663</b>                                  | <b>47 157</b>   | <b>7 174</b> | <b>2 396</b> |  | <b>29</b>                    |   |                          | <b>74 877</b> |  |  |  |  |  |
| Electricity - Électricité - Electrica   | 11 283                       | 12                         | 1 994   |                                 |  |                                   |   | 153   | 3 218        |              |  |                              | 1 199                                   |                          | 17 860        |  |  |  |  |  |
| Heat - Chaleur - Calor  |                              |                            |   | 2                               | 136                                      | 39                                | 78  | 4 569   |              |              |  |                              | 376                                     |                          | 5 200         |  |  |  |  |  |
| Direct use - Utilisation directe - Uso directo  |                              |                            |   | 380                             | 30                                       | 3 582                             | 431   | 39 370  | 7 174        | 821          |  |                              | 29                                      |                          | 51 817        |  |  |  |  |  |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |   |                                 |  |                                   |   |   |              |              |  |                              |   |                          |               |  |  |  |  |  |
| Electricity - Électricité - Electrica (in/en GWh)   | 3 678                        | 4                          | 650   | 2                               | 174                                      | 50                                | 100   | 1 049   |              |              |  |                              | 391                                     |                          | 5 822         |  |  |  |  |  |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |   |                                 |  |                                   |   | 5 828   |              |              |  |                              | 479                                     |                          | 6 633         |  |  |  |  |  |

## Slovenia

| 2022 (in/en TJ)                                   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar   |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                                 |                             | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Carbon<br>Carbon | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor    | Total                                |
|---|------------------------------|----------------------------|---|---------------------------------|--|-----------------------------------|---|---|---------------------------------|-----------------------------|--|------------------------------|---|-----------------------------|--------------------------------------|
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica  | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás |  |                              |   |                             |                                      |
|   |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                             |                                      |
|   |                              |                            | <b>Primary energy - Énergie primaire - Energía primaria</b>   |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                             |                                      |
| Production - Production - Generación              | 11 335                       | 21                         | 2 324   | 419                             | 574                                      | 2 511                             |   | 22 118  | 3 403<br>- 6<br>- 14            | 1 025                       |  |                              | 10 973<br>- 9 417                       |                             | 40 326<br>14 375<br>- 9 423<br>- 14  |
| Imports - Importations - Importaciones            |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                             | 45 265<br>- 2                        |
| Exports - Exportations - Exportaciones            |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                             |                                      |
| Stock - Stocks - Inventario (+/-)                 |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                             |                                      |
| <b>Supply - Approvisionnement - Oferta</b>        | <b>11 335</b>                | <b>21</b>                  | <b>2 324</b>  | <b>419</b>                      | <b>574</b>                               | <b>2 511</b>                      |   | <b>22 118</b>   | <b>3 383</b>                    | <b>1 025</b>                |  |                              | <b>1 556</b><br>- 2                     |                             | <b>45 265</b><br>- 2                 |
| Differences - Ecarts - Diferencias                |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                             |                                      |
|   |                              |                            | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                             |                                      |
| Electricity - Électricité - Electrica             | - 11 335                     | - 21                       | - 2 324   |                                 |  |                                   |   | - 2 360<br>- 765  | - 60                            | - 14<br>- 877               |  |                              | 13 683<br>966                           | 1 456<br>664                | - 10<br>- 875<br>- 143               |
| CHP - Cogénération - Cogeneración                 |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                             |                                      |
| Heat - Chaleur - Calor                            |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                             |                                      |
| Charcoal - Charbon - Carbón                       |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                             |                                      |
| Pellets/briq. - Granules/briq. - Pellets/briq.    |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                             |                                      |
| Other - Autres - Otras                            |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                             |                                      |
| Own use - Consomm. propre - Uso propio            |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                             |                                      |
| Distribution - Distribution - Distribución        |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                             |                                      |
|   |                              |                            | <b>Final consumption - Consommation finale - Consumo final</b>  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                             |                                      |
| Total - Total - Total                             |                              |                            |   | 419                             | 532                                      | 2 511                             |   | <b>18 992</b><br>3 182  | <b>3 323</b><br>3 323           | <b>134</b><br>21            |  |                              | <b>14 031</b><br>5 922<br>296           | <b>1 601</b><br>420<br>4014 | <b>41 544</b><br>9 603<br>3 619      |
| Industry - Industrie - Industria                  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                             |                                      |
| Transport - Transport - Transporte                |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                             |                                      |
| Commerce - Commerce - Comercial                   |                              |                            |   | 419                             | 410                                      | 2 511                             |   |   | 725                             | 113                         |  |                              | 3 208                                   | 420                         | 4 875                                |
| Residential - Résidentiel - Residencial           |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                             |                                      |
| Other - Autres - Otros                            |                              |                            |   |                                 | 122                                      |                                   |   |   |                                 |                             |  |                              | 592                                     | 698                         | 22 727                               |
|   |                              |                            | <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                             |                                      |
| <b>Total - Total - Total</b>                      | <b>10 856</b>                | <b>20</b>                  | <b>2 226</b>  | <b>419</b>                      | <b>548</b>                               | <b>2 511</b>                      |   | <b>21 007</b>   | <b>3 364</b>                    | <b>593</b>                  |  |                              |   |                             | <b>41 544</b>                        |
| Electricity - Électricité - Electrica             | 10 856                       | 20                         | 2 226   |                                 |  |                                   |   | 560   | 24                              | 346                         |  |                              |   |                             | <b>14 031</b>                        |
| Heat - Chaleur - Calor                            |                              |                            |   |                                 | 16                                       |                                   |   | 1 455   | 17                              | 113                         |  |                              |   |                             | <b>1 601</b>                         |
| Direct use - Utilisation directe - Uso directo    |                              |                            |   | 419                             | 532                                      | 2 511                             |   | 18 992  | 3 323                           | 134                         |  |                              |   |                             | <b>25 911</b>                        |
|   |                              |                            | <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                             |                                      |
| Electricity - Électricité - Electrica (in/en GWh) | 3 149                        | 6                          | 646   |                                 |  |                                   |   | 162   | 7                               | 100                         |  |                              |   |                             | 4 069                                |
| Heat - Chaleur - Calor (in/en TJ)                 |                              |                            |   |                                 | 21                                       |                                   |   | 1 927   | 22                              | 150                         |  |                              |   |                             | 2 121                                |
| 2021 (in/en TJ)                                   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar   |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                                 |                             | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Carbon<br>Carbon | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor    | Total                                |
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica  | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás |  |                              |   |                             |                                      |
|   |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                             |                                      |
|   |                              |                            | <b>Primary energy - Énergie primaire - Energía primaria</b>   |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                             |                                      |
| Production - Production - Generación              | 16 965                       | 20                         | 1 631   | 426                             | 495                                      | 2 442                             |   | 25 286  | 4 428<br>- 12<br>- 40           | 1 044                       |  |                              | 10 362<br>- 10 696                      |                             | 48 310<br>14 790<br>- 10 708<br>- 40 |
| Imports - Importations - Importaciones            |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                             | 52 352                               |
| Exports - Exportations - Exportaciones            |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                             |                                      |
| Stock - Stocks - Inventario (+/-)                 |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                             |                                      |
| <b>Supply - Approvisionnement - Oferta</b>        | <b>16 965</b>                | <b>20</b>                  | <b>1 631</b>  | <b>426</b>                      | <b>495</b>                               | <b>2 442</b>                      |   | <b>25 286</b>   | <b>4 376</b>                    | <b>1 044</b>                |  |                              | <b>- 334</b>                            |                             |                                      |
| Differences - Ecarts - Diferencias                |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                             |                                      |
|   |                              |                            | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                             |                                      |
| Electricity - Électricité - Electrica             | - 16 965                     | - 20                       | - 1 631   |                                 |  |                                   |   | - 2 306<br>- 660  | - 52                            | - 19<br>- 912               |  |                              | 18 622<br>993                           | 1 446<br>581                | - 13<br>- 830<br>- 123               |
| CHP - Cogénération - Cogeneración                 |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                             |                                      |
| Heat - Chaleur - Calor                            |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                             |                                      |
| Charcoal - Charbon - Carbón                       |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                             |                                      |
| Pellets/briq. - Granules/briq. - Pellets/briq.    |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                             |                                      |
| Other - Autres - Otras                            |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                             |                                      |
| Own use - Consomm. propre - Uso propio            |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                             |                                      |
| Distribution - Distribution - Distribución        |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                             |                                      |
|   |                              |                            | <b>Final consumption - Consommation finale - Consumo final</b>  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                             |                                      |
| Total - Total - Total                             |                              |                            |   | 426                             | 452                                      | 2 442                             |   | <b>22 320</b><br>3 338  | <b>4 324</b><br>4 324           | <b>114</b><br>23            |  |                              | <b>16 628</b><br>7 489<br>292           | <b>1 568</b><br>419         | <b>48 273</b><br>11 270              |
| Industry - Industrie - Industria                  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                             |                                      |
| Transport - Transport - Transporte                |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                             |                                      |
| Commerce - Commerce - Comercial                   |                              |                            |   |                                 | 333                                      | 2 442                             |   |   |                                 |                             |  |                              | 4 111                                   | 460                         | 4 616                                |
| Residential - Résidentiel - Residencial           |                              |                            |   |                                 | 119                                      |                                   |   |   |                                 |                             |  |                              | 4 698                                   | 689                         | 4 995                                |
| Other - Autres - Otros                            |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |  |                              | 37                                      |                             | 156                                  |
|   |                              |                            | <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                             |                                      |
| <b>Total - Total - Total</b>                      | <b>14 381</b>                | <b>17</b>                  | <b>1 383</b>  | <b>426</b>                      | <b>469</b>                               | <b>2 442</b>                      |   | <b>24 252</b>   | <b>4 356</b>                    | <b>547</b>                  |  |                              |   |                             | <b>48 273</b>                        |
| Electricity - Électricité - Electrica             | 14 381                       | 17                         | 1 383   |                                 |  |                                   |   | 516   | 17                              | 313                         |  |                              |   |                             | <b>16 628</b>                        |
| Heat - Chaleur - Calor                            |                              |                            |   |                                 | 17                                       |                                   |   | 1 416   | 15                              | 120                         |  |                              |   |                             | <b>1 568</b>                         |
| Direct use - Utilisation directe - Uso directo    |                              |                            |   | 426                             | 452                                      | 2 442                             |   | 22 320  | 4 324                           | 114                         |  |                              |   |                             | <b>30 078</b>                        |
|   |                              |                            | <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                             |                                      |
| Electricity - Électricité - Electrica (in/en GWh) | 4 713                        | 6                          | 453   |                                 |  |                                   |   | 169   | 6                               | 103                         |  |                              |   |                             | <b>5 449</b>                         |
| Heat - Chaleur - Calor (in/en TJ)                 |                              |                            |   |                                 | 21                                       |                                   |   | 1 831   | 19                              | 155                         |  |                              |   |                             | <b>2 027</b>                         |

## South Africa

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Eolienne<br>Eólica | Solar - Solaire - Solar                               |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios   |                             |            | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Carbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total          |                |
|---|------------------------------|----------------------------|---|---------------------------------|-------------------------------|--|-----------------------------------|---|---|-----------------------------|------------|--|------------------------------|---|--------------------------|----------------|----------------|
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Solidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás |            |  |                              |   |                          |                |                |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaaria |                                 |                               |  |                                   |   | Primary energy - Énergie primaire - Energía primaaria   |                             |            |  |                              |   |                          |                |                |
| Production - Production - Generación  | 11 965                       | 806                        | 24 293  | 5 722                           |                               |  |                                   |   | 185 194   |                             | 493        | 29   | 4 145                        | 1 672                                   |                          | 228 472        |                |
| Imports - Importations - Importaciones  |                              |                            |   |                                 |                               |  |                                   |   |   |                             | - 14       | - 1748   | - 2 602                      |   | 5 846                    |                |                |
| Exports - Exportations - Exportaciones  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |            |  |                              | - 2 365                                 |                          |                |                |
| Stock - Stocks - Inventario (+/-)   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |            |  |                              |   |                          |                |                |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>11 965</b>                | <b>806</b>                 | <b>24 293</b>   | <b>5 722</b>                    |                               |  |                                   |   | <b>185 194</b>  |                             | <b>493</b> | <b>15</b>  | <b>2 397</b>                 | <b>- 930</b>                            |                          | <b>229 954</b> |                |
| <i>Differences - Ecarts - Diferencias</i>   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |            |  |                              | - 1 342                                 |                          |                |                |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |   |                                 |                               |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                             |            |  |                              |   |                          |                |                |
| Electricity - Électricité - Electrica   | - 11 965                     | - 806                      | - 24 293  | - 5 722                         |                               |  |                                   |   | - 3 440   |                             | - 493      |  | 42 949                       |   | - 330                    |                |                |
| CHP - Cogénération - Cogeneración   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |            |  | 1 295                        |   | - 2 145                  |                |                |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |                               |  |                                   |   | - 4 236   |                             |            |  |                              |   | - 2 318                  |                |                |
| Charcoal - Charbon - Carbón   |                              |                            |   |                                 |                               |  |                                   |   | - 109   |                             | 85         |  | 1 917                        |   | - 25                     |                |                |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |            |  |                              |   | - 1 378                  |                |                |
| Other - Autres - Otras  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |            |  |                              | - 4 850                                 |                          |                |                |
| Own use - Consomm. propre - Uso propio  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |            |  |                              |   |                          |                |                |
| Distribution - Distribución - Distribución  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |            |  |                              |   |                          |                |                |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |   |                                 |                               |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                             |            |  |                              |   |                          |                |                |
| <b>Total - Total - Total</b>  |                              |                            |   |                                 |                               |  |                                   |   | <b>177 442</b>  |                             |            | <b>99</b>  | <b>4 314</b>                 | <b>35 743</b>                           |                          | <b>217 599</b> |                |
| Industry - Industrie - Industria  |                              |                            |   |                                 |                               |  |                                   |   | 38 227  |                             |            |  |                              | 14 024                                  |                          | 52 251         |                |
| Transport - Transport - Transporte  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |            |  |                              | 405                                     |                          |                |                |
| Commerce - Commerce - Comercial   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |            |  |                              | 18 189                                  |                          | 18 189         |                |
| Residential - Résidentiel - Residencial   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |            |  |                              | 2 072                                   |                          | 145 701        |                |
| Other - Autres - Otros  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |            |  |                              | 1 053                                   |                          | 1 053          |                |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |   |                                 |                               |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                             |            |  |                              |   |                          |                |                |
| <b>Total - Total - Total</b>  | <b>9 666</b>                 | <b>651</b>                 | <b>19 625</b>   | <b>4 623</b>                    |                               |  |                                   |   | <b>178 488</b>  |                             |            | <b>132</b>                                       | <b>99</b>                    | <b>4 314</b>                            |                          | <b>217 599</b> |                |
| Electricity - Électricité - Electrica   | 9 666                        | 651                        | 19 625  | 4 623                           |                               |  |                                   |   | 1046  |                             |            | 132  |                              |   |                          |                | <b>35 743</b>  |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |            |  |                              |   |                          |                | <b>181 855</b> |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |   |                                 |                               |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                             |            |  |                              |   |                          |                |                |
| Electricity - Electricité - Electrica (in/en GWh)   | 3 324                        | 224                        | 6 748   | 1 589                           |                               |  |                                   |   | 360   |                             | 45         |  |                              |   |                          |                | 12 290         |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |            |  |                              |   |                          |                |                |
| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Eolienne<br>Eólica | Solar - Solaire - Solar                               |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios   |                             |            | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Carbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total          |                |
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Solidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás |            |  |                              |   |                          |                |                |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaaria |                                 |                               |  |                                   |   | Primary energy - Énergie primaire - Energía primaaria   |                             |            |  |                              |   |                          |                |                |
| Production - Production - Generación  | 6 569                        | 958                        | 25 100  | 5 947                           |                               |  |                                   |   | 184 627   |                             | 493        | 24   | 3 592                        | 1 651                                   |                          | 223 694        |                |
| Imports - Importations - Importaciones  |                              |                            |   |                                 |                               |  |                                   |   |   |                             | - 3        | - 1549   | - 2 529                      |   | 5 267                    |                |                |
| Exports - Exportations - Exportaciones  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |            |  |                              |   | - 4 081                  |                |                |
| Stock - Stocks - Inventario (+/-)   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |            |  |                              |   |                          |                |                |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>6 569</b>                 | <b>958</b>                 | <b>25 100</b>   | <b>5 947</b>                    |                               |  |                                   |   | <b>184 627</b>  |                             | <b>493</b> | <b>20</b>  | <b>2 043</b>                 | <b>- 878</b>                            |                          | <b>224 879</b> |                |
| <i>Differences - Ecarts - Diferencias</i>   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |            |  |                              |   |                          | <b>351</b>     |                |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |   |                                 |                               |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                             |            |  |                              |   |                          |                |                |
| Electricity - Électricité - Electrica   | - 6 569                      | - 958                      | - 25 100  | - 5 947                         |                               |  |                                   |   | - 3 440   |                             | - 493      |  | 38 737                       |   | - 330                    |                |                |
| CHP - Cogénération - Cogeneración   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |            |  | 1 295                        |   | - 2 145                  |                |                |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |                               |  |                                   |   | - 4 236   |                             |            |  |                              |   | - 2 318                  |                |                |
| Charcoal - Charbon - Carbón   |                              |                            |   |                                 |                               |  |                                   |   | - 109   |                             | 85         |  | 1 917                        |   | - 25                     |                |                |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |            |  |                              | - 1 392                                 |                          |                |                |
| Other - Autres - Otras  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |            |  |                              | - 4 698                                 |                          |                |                |
| Own use - Consomm. propre - Uso propio  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |            |  |                              |   |                          |                |                |
| Distribution - Distribución - Distribución  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |            |  |                              |   |                          |                |                |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |   |                                 |                               |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                             |            |  |                              |   |                          |                |                |
| <b>Total - Total - Total</b>  |                              |                            |   |                                 |                               |  |                                   |   | <b>176 875</b>  |                             |            | <b>105</b>                                       | <b>3 961</b>                 | <b>33 415</b>                           |                          | <b>214 356</b> |                |
| Industry - Industrie - Industria  |                              |                            |   |                                 |                               |  |                                   |   | 38 227  |                             |            |  |                              | 12 733                                  |                          | 50 960         |                |
| Transport - Transport - Transporte  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |            |  |                              | 362                                     |                          |                |                |
| Commerce - Commerce - Comercial   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |            |  |                              | 17 246                                  |                          | 17 246         |                |
| Residential - Résidentiel - Residencial   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |            |  |                              | 2 051                                   |                          | 144 765        |                |
| Other - Autres - Otros  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |            |  |                              | 1 023                                   |                          | 1 023          |                |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |   |                                 |                               |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                             |            |  |                              |   |                          |                |                |
| <b>Total - Total - Total</b>  | <b>5 483</b>                 | <b>799</b>                 | <b>20 951</b>   | <b>4 964</b>                    |                               |  |                                   |   | <b>177 956</b>  |                             |            | <b>136</b>                                       | <b>105</b>                   | <b>3 961</b>                            |                          | <b>214 356</b> |                |
| Electricity - Électricité - Electrica   | 5 483                        | 799                        | 20 951  | 4 964                           |                               |  |                                   |   | 1081  |                             | 136        |  | 105                          |   |                          |                | <b>33 415</b>  |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |            |  |                              |   |                          |                |                |
| Direct use - Utilisation directe - Uso directo  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |            |  |                              |   |                          |                | <b>180 941</b> |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |   |                                 |                               |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                             |            |  |                              |   |                          |                |                |
| Electricity - Electricité - Electrica (in/en GWh)   | 1825                         | 266                        | 6 972   | 1 652                           |                               |  |                                   |   | 360   |                             | 45         |  |                              |   |                          |                | <b>11 120</b>  |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |            |  |                              |   |                          |                |                |

## South Georgia and the South Sandwich Islands

## South Georgia and the South Sandwich Islands

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica                     | Solar - Solaire - Solar         |  | Geothermal<br>Géothermique | Other RE<br>Autres ER                       | Ren. waste<br>Déchets ren.<br>Residuos ren.   | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbon | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total    |
|---|------------------------------|--|---------------------------------|--|----------------------------|---|---|---|--|-------------------------------|---|--------------------------|----------|
|   | Hydro/Marine<br>Hydro/Marina | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER      | Ren. waste<br>Déchets ren.<br>Residuos ren. | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás                      |                               |   |                          |          |
| <b>Primary energy - Énergie primaire - Energía primaria</b>   |                              |  |                                 |  |                            |   | <b>Primary energy - Énergie primaire - Energía primaria</b>   |   |  |                               |   |                          |          |
| Production - Production - Generación<br>Imports - Importations - Importaciones<br>Exports - Exportations - Exportaciones<br>Stock - Stocks - Inventario (+/-)   | 3                            | 0  |                                 |  |                            |   |   |   |  |                               |   |                          | 3        |
| <b>Supply - Approvisionnement - Oferta</b><br><i>Differences - Ecarts - Diferencias</i>   | <b>3</b>                     | <b>0</b>                                       |                                 |  |                            |   |   |   |  |                               |   |                          | <b>3</b> |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |  |                                 |  |                            |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |   |  |                               |   |                          |          |
| Electricity - Électricité - Electrica<br>CHP - Cogénération - Cogeneración<br>Heat - Chaleur - Calor<br>Charcoal - Charbon - Carbón<br>Pellets/briq. - Granules/briq. - Pellets/briq.<br>Other - Autres - Otras<br>Own use - Consomm. propre - Uso propio<br>Distribution - Distribution - Distribución | - 3                          | - 0  |                                 |  |                            |   |   |   |  |                               |   |                          | 3        |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |  |                                 |  |                            |   | <b>Final consumption - Consommation finale - Consumo final</b>  |   |  |                               |   |                          |          |
| <b>Total - Total - Total</b><br>Industry - Industrie - Industria<br>Transport - Transport - Transporte<br>Commerce - Commerce - Comercial<br>Residential - Résidentiel - Residencial<br>Other - Autres - Otros  |                              |  |                                 |  |                            |   |   |   |  |                               |   |                          |          |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |  |                                 |  |                            |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |   |  |                               |   |                          |          |
| <b>Total - Total - Total</b><br>Electricity - Électricité - Electrica<br>Heat - Chaleur - Calor<br>Direct use - Utilisation directe - Uso directo   |                              |  |                                 |  |                            |   |   |   |  |                               |   |                          |          |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b>   |                              |  |                                 |  |                            |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |   |  |                               |   |                          |          |
| Electricity - Électricité - Electrica (in/en GWh)<br>Heat - Chaleur - Calor (in/en TJ)  | 1                            | 0  |                                 |  |                            |   |   |   |  |                               |   |                          | 1        |

| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica                     | Solar - Solaire - Solar         |  | Geothermal<br>Géothermique | Other RE<br>Autres ER                       | Ren. waste<br>Déchets ren.<br>Residuos ren.   | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbon | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total    |
|---|------------------------------|--|---------------------------------|--|----------------------------|---|---|---|--|-------------------------------|---|--------------------------|----------|
|   | Hydro/Marine<br>Hydro/Marina | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER      | Ren. waste<br>Déchets ren.<br>Residuos ren. | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás                      |                               |   |                          |          |
| <b>Primary energy - Énergie primaire - Energía primaria</b>   |                              |  |                                 |  |                            |   | <b>Primary energy - Énergie primaire - Energía primaria</b>   |   |  |                               |   |                          |          |
| Production - Production - Generación<br>Imports - Importations - Importaciones<br>Exports - Exportations - Exportaciones<br>Stock - Stocks - Inventario (+/-)   | 3                            | 0  |                                 |  |                            |   |   |   |  |                               |   |                          | 3        |
| <b>Supply - Approvisionnement - Oferta</b><br><i>Differences - Ecarts - Diferencias</i>   | <b>3</b>                     | <b>0</b>                                       |                                 |  |                            |   |   |   |  |                               |   |                          | <b>3</b> |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |  |                                 |  |                            |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |   |  |                               |   |                          |          |
| Electricity - Électricité - Electrica<br>CHP - Cogénération - Cogeneración<br>Heat - Chaleur - Calor<br>Charcoal - Charbon - Carbón<br>Pellets/briq. - Granules/briq. - Pellets/briq.<br>Other - Autres - Otras<br>Own use - Consomm. propre - Uso propio<br>Distribution - Distribution - Distribución | - 3                          | - 0  |                                 |  |                            |   |   |   |  |                               |   |                          | 3        |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |  |                                 |  |                            |   | <b>Final consumption - Consommation finale - Consumo final</b>  |   |  |                               |   |                          |          |
| <b>Total - Total - Total</b><br>Industry - Industrie - Industria<br>Transport - Transport - Transporte<br>Commerce - Commerce - Comercial<br>Residential - Résidentiel - Residencial<br>Other - Autres - Otros  |                              |  |                                 |  |                            |   |   |   |  |                               | 3                                       |                          | 3        |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |  |                                 |  |                            |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |   |  |                               |   |                          |          |
| <b>Total - Total - Total</b><br>Electricity - Électricité - Electrica<br>Heat - Chaleur - Calor<br>Direct use - Utilisation directe - Uso directo   | <b>3</b>                     | <b>0</b>                                       |                                 |  |                            |   |   |   |  |                               |   |                          | <b>3</b> |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b>   |                              |  |                                 |  |                            |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |   |  |                               |   |                          |          |
| Electricity - Électricité - Electrica (in/en GWh)<br>Heat - Chaleur - Calor (in/en TJ)  | 1                            | 0  |                                 |  |                            |   |   |   |  |                               |   |                          | 1        |

## Spain

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                              |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |  |                    | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Carbon<br>Carbon | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor                | Total               |
|---|------------------------------|----------------------------|--|---------------------------------|-------------------------------|--|-----------------------------------|---|---|--|--------------------|--|------------------------------|---|---|---------------------|
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica       | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Liquidos   | Biogas - Biogaz<br>- Biogás                |                    |  |                              |   |   |                     |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaria |                                 |                               |  |                                   |   | Primary energy - Énergie primaire - Energía primaria                        |  |                    |  |                              |   |   |                     |
| Production - Production - Generación  | 63 407                       | 226 022                    | 112 421  | 63 906                          | 8                             | 50 711                                   | 11 899                            | 221 794                                     | 78 322<br>67 823<br>- 92 696<br>3 675                                       | 13 955                                     |                    |  | 12 155<br>- 42 122           |   | 842 445<br>79 977<br>- 134 818<br>3 675 |                     |
| Imports - Importations - Importaciones  |                              |                            |  |                                 |                               |  |                                   |   | 57 124<br>556   | 13 955                                     |                    |  | - 29 967<br>- 519            |   | 791 279<br>37                           |                     |
| Exports - Exportations - Exportaciones  |                              |                            |  |                                 |                               |  |                                   |   |   |  |                    |  |                              |   |   |                     |
| Stock - Stocks - Inventario (+/-)   | 63 407                       | 226 022                    | 112 421  | 63 906                          | 8                             | 50 711                                   | 11 899                            | 221 794                                     |   |  |                    |  |                              |   |   |                     |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>63 407</b>                | <b>226 022</b>             | <b>112 421</b>                                       | <b>63 906</b>                   | <b>8</b>                      | <b>50 711</b>                            | <b>11 899</b>                     | <b>221 794</b>                              | <b>78 322<br/>67 823<br/>- 92 696<br/>3 675</b>                             | <b>13 955</b>                              |                    |  |                              |   |   |                     |
| Differences - Ecarts - Diferencias  |                              |                            |  |                                 |                               |  |                                   |   |   |  |                    |  |                              |   |   |                     |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |                                 |                               |  |                                   |   |   |  |                    |  |                              |   |   |                     |
| Electricity - Électricité - Electrica   | - 63 407                     | - 226 022                  | - 112 421  | - 49 493                        |                               |  |                                   |   | - 9 999<br>- 1537   | - 53 181<br>- 6 685<br>- 2 165<br>- 10 069 | - 107              | - 7 254<br>- 1866                                |                              | 438 370<br>4 284                        |   | - 83 407<br>- 5 911 |
| CHP - Cogénération - Cogeneración   |                              |                            |  |                                 |                               |  |                                   |   |   |  |                    |  |                              |   |   |                     |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |                               |  |                                   |   |   |  |                    |  |                              |   |   |                     |
| Charcoal - Charbon - Carbón   |                              |                            |  |                                 |                               |  |                                   |   |   |  |                    |  |                              |   |   |                     |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |  |                                 |                               |  |                                   |   |   |  |                    |  |                              |   |   |                     |
| Other - Autres - Otras  |                              |                            |  |                                 |                               |  |                                   |   |   |  |                    |  |                              |   |   |                     |
| Own use - Consomm. propre - Uso propio  |                              |                            |  |                                 |                               |  |                                   |   |   |  |                    |  |                              |   |   |                     |
| Distribution - Distribution - Distribución  |                              |                            |  |                                 |                               |  |                                   |   |   |  |                    |  |                              |   |   |                     |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |                                 |                               |  |                                   |   |   |  |                    |  |                              |   |   |                     |
| Total - Total - Total   |                              |                            |  | 14 408                          | 8                             | 50 711                                   | 363                               | 149 694                                     | 57 574<br>14<br>57 500  | 4 829<br>1 731                             | 10 069             | 433  | 339 550<br>107 224<br>6 023  |   | 627 638<br>196 191                      |                     |
| Industry - Industrie - Industria  |                              |                            |  | 120                             |                               | 11 901                                   |                                   | 75 201                                      |   |  |                    |  |                              |   |   | 63 523              |
| Transport - Transport - Transporte  |                              |                            |  | 1 960                           | 4                             | 29 946                                   | 363                               | 4 946                                       |   | 2 421                                      | 10 069             | 433  | 106 535<br>111 178<br>8 588  |   | 146 215<br>209 283<br>12 427            |                     |
| Commerce - Commerce - Comercial   |                              |                            |  | 11 986                          | 4                             | 8 861                                    |                                   | 66 752                                      |   |  |                    |  |                              |   |   |                     |
| Residential - Résidentiel - Residencial   |                              |                            |  | 342                             | 4                             |  |                                   | 2 795                                       | 20  | 677  |                    |  |                              |   |   |                     |
| Other - Autres - Otras  |                              |                            |  |                                 |                               |  |                                   |   |   |  |                    |  |                              |   |   |                     |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |                                 |                               |  |                                   |   |   |  |                    |  |                              |   |   |                     |
| Total - Total - Total   | 48 638                       | 173 376                    | 86 235   | 26 934                          | 8                             | 50 711                                   | 2 747                             | 163 314                                     | 57 610<br>36  | 7 563<br>2 734                             | 10 069             | 433  |                              |   |   | 627 638             |
| Electricity - Électricité - Electrica   | 48 638                       | 173 376                    | 86 235   | 12 526                          |                               | 2 385                                    |                                   | 13 620                                      |   |  |                    |  |                              |   |   | 339 550             |
| Heat - Chaleur - Calor  |                              |                            |  | 14 408                          | 8                             | 50 711                                   | 363                               | 149 694                                     | 57 574  | 4 829                                      | 10 069             | 433  |                              |   |   | 288 089             |
| Direct use - Utilisation directe - Uso directo  |                              |                            |  |                                 |                               |  |                                   |   |   |  |                    |  |                              |   |   |                     |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |                                 |                               |  |                                   |   |   |  |                    |  |                              |   |   |                     |
| Electricity - Électricité - Electrica (in/en GWh)   | 17 613                       | 62 784                     |  | 31 228                          | 4 536                         |  |                                   | 864   | 4 932   | 13   | 990                |  |                              |   |   | 122 960             |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |  |                                 |                               |  |                                   |   |   |  |                    |  |                              |   |   |                     |
| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                              |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |  |                    | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Carbon<br>Carbon | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor                | Total               |
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica       | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Liquidos   | Biogas - Biogaz<br>- Biogás                |                    |  |                              |   |   |                     |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaria |                                 |                               |  |                                   |   | Primary energy - Énergie primaire - Energía primaria                        |  |                    |  |                              |   |   |                     |
| Production - Production - Generación  | 106 722                      | 223 420                    | 78 919   | 70 597                          | 8                             | 44 903                                   | 11 857                            | 220 999                                     | 79 098<br>69 687<br>- 104 983<br>15 191                                     | 13 644                                     |                    |  | 28 733<br>- 27 326           |   | 850 167<br>98 421                       |                     |
| Imports - Importations - Importaciones  |                              |                            |  |                                 |                               |  |                                   |   |   |  |                    |  |                              |   |   | - 132 309           |
| Exports - Exportations - Exportaciones  |                              |                            |  |                                 |                               |  |                                   |   |   |  |                    |  |                              |   |   | 15 191              |
| Stock - Stocks - Inventario (+/-)   | 106 722                      | 223 420                    | 78 919   | 70 597                          | 8                             | 44 903                                   | 11 857                            | 220 999                                     | 58 994<br>- 118   | 13 644                                     |                    |  | 1 407<br>- 139               |   | 831 470<br>- 256                        |                     |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>106 722</b>               | <b>223 420</b>             | <b>78 919</b>  | <b>70 597</b>                   | <b>8</b>                      | <b>44 903</b>                            | <b>11 857</b>                     | <b>220 999</b>                              | <b>58 994<br/>- 118</b>   | <b>13 644</b>                              |                    |  |                              |   |   |                     |
| Differences - Ecarts - Diferencias  |                              |                            |  |                                 |                               |  |                                   |   |   |  |                    |  |                              |   |   |                     |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |                                 |                               |  |                                   |   |   |  |                    |  |                              |   |   |                     |
| Electricity - Électricité - Electrica   | - 106 722                    | - 223 420                  | - 78 919   | - 56 476                        |                               |  |                                   | - 9 863<br>- 1 705                          | - 55 658<br>- 7 894<br>- 2 165<br>- 9 979                                   | - 118                                      | - 7 361<br>- 1 646 |  | 447 829<br>4 858             |   | - 90 589<br>- 6 505                     |                     |
| CHP - Cogénération - Cogeneración   |                              |                            |  |                                 |                               |  |                                   |   |   |  |                    |  |                              |   |   |                     |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |                               |  |                                   |   |   |  |                    |  |                              |   |   |                     |
| Charcoal - Charbon - Carbón   |                              |                            |  |                                 |                               |  |                                   |   |   |  |                    |  |                              |   |   |                     |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |  |                                 |                               |  |                                   |   |   |  |                    |  |                              |   |   |                     |
| Other - Autres - Otras  |                              |                            |  |                                 |                               |  |                                   |   |   |  |                    |  |                              |   |   |                     |
| Own use - Consomm. propre - Uso propio  |                              |                            |  |                                 |                               |  |                                   |   |   |  |                    |  |                              |   |   |                     |
| Distribution - Distribution - Distribución  |                              |                            |  |                                 |                               |  |                                   |   |   |  |                    |  |                              |   |   |                     |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |                                 |                               |  |                                   |   |   |  |                    |  |                              |   |   |                     |
| Total - Total - Total   |                              |                            |  | 14 116<br>120                   | 8                             | 44 903<br>10 661                         | 290                               | 145 303<br>70 795                           | 58 758<br>13<br>58 670  | 4 631<br>1 829                             | 9 979              | 433  | 376 062<br>125 163<br>6 043  |   | 654 484<br>208 581                      |                     |
| Industry - Industrie - Industria  |                              |                            |  | 2 024                           | 4                             | 26 058                                   | 290                               | 4 989<br>66 740<br>2 779                    | 44<br>2 373   |  | 9 979              | 433  | 114 094<br>120 715<br>10 047 |   | 64 713<br>149 877<br>13 628             |                     |
| Transport - Transport - Transporte  |                              |                            |  | 11 634<br>338                   | 4                             | 8 180<br>4                               |                                   | 30  | 429   |  |                    |  |                              |   |   |                     |
| Commerce - Commerce - Comercial   |                              |                            |  |                                 |                               |  |                                   |   |   |  |                    |  |                              |   |   |                     |
| Residential - Résidentiel - Residencial   |                              |                            |  |                                 |                               |  |                                   |   |   |  |                    |  |                              |   |   |                     |
| Other - Autres - Otras  |                              |                            |  |                                 |                               |  |                                   |   |   |  |                    |  |                              |   |   |                     |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |                                 |                               |  |                                   |   |   |  |                    |  |                              |   |   |                     |
| Total - Total - Total   | 88 657                       | 185 602                    | 65 561   | 29 596                          | 8                             | 44 903                                   | 2 846                             | 160 540                                     | 58 800<br>42  | 7 559<br>2 928                             | 9 979              | 433  |                              |   |   | 654 484             |
| Electricity - Électricité - Electrica   | 88 657                       | 185 602                    | 65 561   | 15 480                          |                               | 2 556                                    |                                   | 15 237                                      |   |  |                    |  |                              |   |   | 376 062             |
| Heat - Chaleur - Calor  |                              |                            |  | 14 116                          | 8                             | 44 903                                   | 290                               | 145 303                                     | 58 758  | 4 631                                      | 9 979              | 433  |                              |   |   | 278 421             |
| Direct use - Utilisation directe - Uso directo  |                              |                            |  |                                 |                               |  |                                   |   |   |  |                    |  |                              |   |   |                     |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |                                 |                               |  |                                   |   |   |  |                    |  |                              |   |   |                     |
| Electricity - Électricité - Electrica (in/en GWh)   | 29 645                       | 62 061                     |  | 21 922                          | 5 176                         |  |                                   | 855   | 5 095   | 14   | 979                |  |                              |   |   | 125 747             |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |  |                                 |                               |  |                                   |   |   |  |                    |  |                              |   |   |                     |

Sri Lanka

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                              |                                 | Geothermal<br>Géothermique<br>Geotérmica             | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios   |                                 |                             | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Carbon<br>Carbon | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total                  |
|---|------------------------------|----------------------------|--|---------------------------------|--|-----------------------------------|---|---|---------------------------------|-----------------------------|--|------------------------------|---|--------------------------|------------------------|
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica       | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás |  |                              |   |                          |                        |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaria |                                 | Primary energy - Énergie primaire - Energía primaria |                                   |   |   |                                 |                             |  |                              |   |                          |                        |
| Production - Production - Generación  | 24 362                       | 2 656                      | 3 039  | 344                             |  |                                   | 378   | 49 282  | 0                               | 49                          |  | 512<br>- 435                 |   |                          | 80 110<br>512<br>- 435 |
| Imports - Importations - Importaciones  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |                        |
| Exports - Exportations - Exportaciones  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |                        |
| Stock - Stocks - Inventario (+/-)   |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |                        |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>24 362</b>                | <b>2 656</b>               | <b>3 039</b>   | <b>344</b>                      |  |                                   | <b>378</b>                                  | <b>49 282</b>   | <b>0</b>                        | <b>49</b>                   |  | <b>77</b>                    |   |                          | <b>80 187</b><br>- 36  |
| Differences - Ecarts - Diferencias  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |                        |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |                                 |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                                 |                             |  |                              |   |                          |                        |
| Electricity - Électricité - Electrica   | - 24 362                     | - 2 656                    | - 3 039  |                                 |  |                                   | - 378                                       | - 510   |                                 | - 0                         |  | 30 354                       |   |                          | - 592                  |
| CHP - Cogénération - Cogeneración   |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |                        |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |                        |
| Charcoal - Charbon - Carbón   |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |                        |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |                        |
| Other - Autres - Otras  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |                        |
| Own use - Consomm. propre - Uso propio  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |                        |
| Distribution - Distribution - Distribución  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |                        |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |                                 |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                                 |                             |  |                              |   |                          |                        |
| Total - Total - Total   |                              |                            |  | 344                             |  |                                   |   | 48 640  | 0                               | 49                          |  | 136                          | 26 450<br>8 331                         |                          | 75 619<br>8 331        |
| Industry - Industrie - Industria  |                              |                            |  |                                 |  |                                   |   |   | 0                               |                             |  |                              |   |                          | 0                      |
| Transport - Transport - Transporte  |                              |                            |  | 206                             |  |                                   |   |   |                                 | 3                           |  |                              |   |                          | 15 136                 |
| Commerce - Commerce - Comercial   |                              |                            |  | 137                             |  |                                   |   | 7 296<br>41 344   |                                 | 46                          |  | 20<br>116                    | 7 610<br>10 412<br>97                   |                          | 52 056<br>97           |
| Residential - Résidentiel - Residencial   |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |                        |
| Other - Autres - Otras  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |                        |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |                                 |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                                 |                             |  |                              |   |                          |                        |
| <b>Total - Total - Total</b>  | <b>21 229</b>                | <b>2 315</b>               | <b>2 648</b>   | <b>344</b>                      |  |                                   | <b>110</b>                                  | <b>48 788</b>   | <b>0</b>                        | <b>49</b>                   |  | <b>136</b>                   |   |                          | <b>75 619</b>          |
| Electricity - Électricité - Electrica   | 21 229                       | 2 315                      | 2 648  |                                 |  |                                   | 110   | 148   |                                 | 0                           |  |                              |   |                          | <b>26 450</b>          |
| Heat - Chaleur - Calor  |                              |                            |  | 344                             |  |                                   |   | 48 640  | 0                               | 49                          |  | 136                          |   |                          | <b>49 170</b>          |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |                                 |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                                 |                             |  |                              |   |                          |                        |
| Electricity - Électricité - Electrica (in/en GWh)   | 6 767                        | 738                        | 844  |                                 |  |                                   | 35  | 47  |                                 | 0                           |  |                              |   |                          | 8 432                  |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |                        |
| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                              |                                 | Geothermal<br>Géothermique<br>Geotérmica             | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios   |                                 |                             | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Carbon<br>Carbon | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total                  |
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica       | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás |  |                              |   |                          |                        |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaria |                                 |  |                                   |   | Primary energy - Énergie primaire - Energía primaria  |                                 |                             |  |                              |   |                          |                        |
| Production - Production - Generación  | 26 042                       | 2 350                      | 2 304  | 329                             |  |                                   | 378   | 50 608  | 0                               | 54                          |  | 560<br>- 259                 |   |                          | 82 067<br>560<br>- 259 |
| Imports - Importations - Importaciones  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |                        |
| Exports - Exportations - Exportaciones  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |                        |
| Stock - Stocks - Inventario (+/-)   |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |                        |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>26 042</b>                | <b>2 350</b>               | <b>2 304</b>   | <b>329</b>                      |  |                                   | <b>378</b>                                  | <b>50 608</b>   | <b>0</b>                        | <b>54</b>                   |  | <b>301</b>                   |   |                          | <b>82 369</b><br>24    |
| Differences - Ecarts - Diferencias  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |                        |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |                                 |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                                 |                             |  |                              |   |                          |                        |
| Electricity - Électricité - Electrica   | - 26 042                     | - 2 350                    | - 2 304  |                                 |  |                                   | - 378                                       | - 1 003   |                                 | - 0                         |  | 31 157                       |   |                          | - 921                  |
| CHP - Cogénération - Cogeneración   |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |                        |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |                        |
| Charcoal - Charbon - Carbón   |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |                        |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |                        |
| Other - Autres - Otras  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |                        |
| Own use - Consomm. propre - Uso propio  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |                        |
| Distribution - Distribution - Distribución  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |                        |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |                                 |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                                 |                             |  |                              |   |                          |                        |
| Total - Total - Total   |                              |                            |  | 329                             |  |                                   |   | 49 477  | 0                               | 54                          |  | 360                          | 27 130<br>9 117                         |                          | 77 350<br>9 117        |
| Industry - Industrie - Industria  |                              |                            |  |                                 |  |                                   |   |   | 0                               |                             |  |                              |   |                          | 0                      |
| Transport - Transport - Transporte  |                              |                            |  | 198                             |  |                                   |   | 7 421<br>42 055   |                                 | 3                           |  | 54                           | 7 325<br>306                            |                          | 15 001<br>53 137       |
| Commerce - Commerce - Comercial   |                              |                            |  | 132                             |  |                                   |   |   |                                 | 51                          |  | 10 593<br>94                 |   |                          | 94                     |
| Residential - Résidentiel - Residencial   |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |                        |
| Other - Autres - Otras  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |                        |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |                                 |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                                 |                             |  |                              |   |                          |                        |
| <b>Total - Total - Total</b>  | <b>22 676</b>                | <b>2 047</b>               | <b>2 006</b>   | <b>329</b>                      |  |                                   | <b>110</b>                                  | <b>49 768</b>   | <b>0</b>                        | <b>54</b>                   |  | <b>360</b>                   |   |                          | <b>77 350</b>          |
| Electricity - Électricité - Electrica   | 22 676                       | 2 047                      | 2 006  |                                 |  |                                   | 110   | 291   |                                 | 0                           |  |                              |   |                          | <b>27 130</b>          |
| Heat - Chaleur - Calor  |                              |                            |  | 329                             |  |                                   |   | 49 477  | 0                               | 54                          |  | 360                          |   |                          | <b>50 220</b>          |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |                                 |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                                 |                             |  |                              |   |                          |                        |
| Electricity - Électricité - Electrica (in/en GWh)   | 7 234                        | 653                        | 640  |                                 |  |                                   | 35  | 93  |                                 | 0                           |  |                              |   |                          | 8 655                  |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |                        |

## Sweden

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                              |                                 | Geothermal<br>Géothermique<br>Geotérmica             | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarias -<br>Biocombustibles primarios   |   |                             | Pellets/briq.<br>Granules/briq.<br>Pellets/briq.     | Charcoal<br>Charbon<br>Carbón | Electricity<br>Electricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total   |   |
|---|------------------------------|----------------------------|--|---------------------------------|--|-----------------------------------|---|---|---|-----------------------------|--|-------------------------------|---|--------------------------|---|---|
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica       | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos         | Biogas - Biogaz<br>- Biogás |  |                               |   |                          |   |   |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaria |                                 | Primary energy - Énergie primaire - Energía primaria |                                   |   | Primary energy - Énergie primaire - Energía primaria  |   |                             |  |                               |   |                          |   |   |
| Production - Production - Generación  | 251 536                      | 119 711                    | 7 193  | 410                             |  | 75 025                            | 31 145<br>7 932<br>- 14                     | 422 121   | 25 900<br>75 231<br>- 22 253<br>- 4 114 | 8 204                       | 3 389<br>- 4 638                                     |                               | 15 191<br>- 96 833                      |                          | 941 245<br>101 743<br>- 123 738<br>- 4 114<br>915 136<br>11 697 |   |
| Imports - Importations - Importaciones  |                              |                            |  |                                 |  |                                   |   |   |   |                             |  |                               |   |                          |   |   |
| Exports - Exportations - Exportaciones  |                              |                            |  |                                 |  |                                   |   |   |   |                             |  |                               |   |                          |   |   |
| Stock - Stocks - Inventario (+/-)   |                              |                            |  |                                 |  |                                   |   |   |   |                             |  |                               |   |                          |   |   |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>251 536</b>               | <b>119 711</b>             | <b>7 193</b>   | <b>410</b>                      |  | <b>75 025</b>                     | <b>39 063</b>                               | <b>422 121</b>  | <b>74 766<br/>11 742</b>                | <b>8 204</b>                | <b>- 1249</b>  |                               | <b>- 81 642<br/>- 44</b>                |                          | <b>915 136<br/>11 697</b>                                       |   |
| Differences - écarts - Diferencias  |                              |                            |  |                                 |  |                                   |   |   |   |                             |  |                               |   |                          |   |   |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |                                 |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |   |                             |  |                               |   |                          |   |   |
| Electricity - Electricité - Eléctrica   | - 251 536                    | - 119 711                  | - 7 193  |                                 |  | - 7 470                           | - 34 944<br>- 3 861                         | - 148 883<br>- 25 944   | - 1 450<br>- 2 366                      | - 248<br>- 97               | - 5 922<br>- 8 460                                   |                               | 378 439<br>47 178                       | 107 572<br>45 934        | - 36 697<br>- 2 264   |   |
| CHP - Cogénération - Cogeneración   |                              |                            |  |                                 |  |                                   |   |   |   |                             |  |                               |   |                          |   |   |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |  |                                   |   |   |   |                             |  |                               |   |                          |   |   |
| Charcoal - Charbon - Carbón   |                              |                            |  |                                 |  |                                   |   |   |   |                             |  |                               |   |                          |   |   |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |  |                                 |  |                                   |   |   |   |                             |  |                               |   |                          |   |   |
| Other - Autres - Otras  |                              |                            |  |                                 |  |                                   |   |   |   |                             |  |                               |   |                          |   |   |
| Own use - Consomm. propre - Uso propio  |                              |                            |  |                                 |  |                                   |   |   |   |                             |  |                               |   |                          |   |   |
| Distribution - Distribution - Distribución  |                              |                            |  |                                 |  |                                   |   |   |   |                             |  |                               |   |                          |   |   |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |                                 |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |   |                             |  |                               |   |                          |   |   |
| Total - Total - Total   |                              |                            |  | 410                             |  | 63 613                            | 258   | 216 686   | 82 691                                  | 7 053                       | 14 977   |                               | 301 729                                 | 136 094                  | 823 512   |   |
| Industry - Industrie - Industria  |                              |                            |  |                                 |  |                                   |   | 181 219   | 7 096<br>66 881                         | 2 100<br>3 284              | 9 647  |                               | 111 820                                 | 20 111                   | 332 251   |   |
| Transport - Transport - Transporte  |                              |                            |  |                                 |  |                                   |   |   |   |                             |  |                               | 10 084                                  |                          | 80 249  |   |
| Commerce - Commerce - Comercial   |                              |                            |  |                                 |  |                                   |   |   | 2 692                                   |                             | 1 262  |                               | 76 041                                  | 37 235                   | 117 230   |   |
| Residential - Résidentiel - Residencial   |                              |                            |  |                                 |  |                                   |   |   | 854                                     |                             | 3 419  |                               | 99 871                                  | 78 527                   | 213 836   |   |
| Other - Autres - Otros  |                              |                            |  |                                 |  |                                   |   |   | 4 711                                   | 5 169                       | 1 669  |                               | 650                                     | 3 913                    | 79 946  |   |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |                                 |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |   |                             |  |                               |   |                          |   |   |
| Total - Total - Total   | 178 958                      | 85 170                     | 5 117  | 410                             |  | 77 825                            | 29 508                                      | 327 471   | 85 749                                  | 7 316                       | 25 988   |                               |   |                          |   | 823 512                                 |
| Electricity - Electricité - Eléctrica   | 178 958                      | 85 170                     | 5 117  |                                 |  |                                   |   | 4 510   | 26 670                                  | 192                         | 31   |                               |   |                          |   | 301 729                                 |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |  |                                   |   | 14 212  | 24 739                                  | 84 116                      | 2 866  |                               | 232                                     | 9 929                    |   | 136 094                                 |
| Direct use - Utilisation directe - Uso directo  |                              |                            |  | 410                             |  | 63 613                            | 258   | 216 686   | 82 691                                  | 7 053                       | 14 977   |                               |   |                          |   | 385 688                                 |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |                                 |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |   |                             |  |                               |   |                          |   |   |
| Electricity - Electricité - Eléctrica (in/en GWh)   | 69 871                       | 33 253                     | 1 998  |                                 |  |                                   |   | 17 661  | 10 413                                  | 75                          | 12   |                               | 422                                     |                          |   | 117 805                                 |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |  |                                 |  |                                   |   | 14 940  | 88 426                                  | 3 013                       | 244  |                               | 10 438                                  |                          |   | 143 068                                 |
| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                              |                                 | Geothermal<br>Géothermique<br>Geotérmica             | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarias -<br>Biocombustibles primarios   |   |                             | Pellets/briq.<br>Granules/briq.<br>Pellets/briq.     | Charcoal<br>Charbon<br>Carbón | Electricity<br>Electricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total   |   |
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica       | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos         | Biogas - Biogaz<br>- Biogás |  |                               |   |                          |   |   |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaria |                                 |  |                                   |   | Primary energy - Énergie primaire - Energía primaria  |   |                             | Primary energy - Énergie primaire - Energía primaria |                               |   |                          |   |   |
| Production - Production - Generación  | 265 986                      | 98 078                     | 5 494  | 425                             |  | 74 068                            | 30 869<br>9 067<br>- 4                      | 429 751   | 30 322<br>67 164<br>- 16 828<br>4 456   | 8 154                       | 2 658<br>- 5 389                                     |                               | 20 229<br>- 82 238                      |                          |   | 943 147<br>99 118<br>- 104 459<br>4 456 |
| Imports - Importations - Importaciones  |                              |                            |  |                                 |  |                                   |   |   |   |                             |  |                               |   |                          |   |   |
| Exports - Exportations - Exportaciones  |                              |                            |  |                                 |  |                                   |   |   |   |                             |  |                               |   |                          |   |   |
| Stock - Stocks - Inventario (+/-)   |                              |                            |  |                                 |  |                                   |   |   |   |                             |  |                               |   |                          |   |   |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>265 986</b>               | <b>98 078</b>              | <b>5 494</b>   | <b>425</b>                      |  | <b>74 068</b>                     | <b>39 932</b>                               | <b>429 751</b>  | <b>85 114<br/>- 6 202</b>               | <b>8 154</b>                | <b>- 2 731</b>                                       |                               | <b>- 62 009<br/>- 1 101</b>             |                          |   | <b>942 263<br/>- 7 303</b>              |
| Differences - écarts - Diferencias  |                              |                            |  |                                 |  |                                   |   |   |   |                             |  |                               |   |                          |   |   |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |                                 |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |   |                             |  |                               |   |                          |   |   |
| Electricity - Electricité - Eléctrica   | - 265 986                    | - 98 078                   | - 5 494  |                                 |  | - 8 114                           | - 35 927<br>- 4 005                         | - 154 809<br>- 28 573   | - 1 641<br>- 3 854                      | - 241<br>- 73               | - 5 922<br>- 8 460                                   |                               | 369 558<br>47 095                       | 112 518<br>50 390        | - 38 927<br>- 2 689   |   |
| CHP - Cogénération - Cogeneración   |                              |                            |  |                                 |  |                                   |   |   |   |                             |  |                               |   |                          |   |   |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |  |                                   |   |   |   |                             |  |                               |   |                          |   |   |
| Charcoal - Charbon - Carbón   |                              |                            |  |                                 |  |                                   |   |   |   |                             |  |                               |   |                          |   |   |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |  |                                 |  |                                   |   |   |   |                             |  |                               |   |                          |   |   |
| Other - Autres - Otras  |                              |                            |  |                                 |  |                                   |   |   |   |                             |  |                               |   |                          |   |   |
| Own use - Consomm. propre - Uso propio  |                              |                            |  |                                 |  |                                   |   |   |   |                             |  |                               |   |                          |   |   |
| Distribution - Distribution - Distribución  |                              |                            |  |                                 |  |                                   |   |   |   |                             |  |                               |   |                          |   |   |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |                                 |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |   |                             |  |                               |   |                          |   |   |
| Total - Total - Total   |                              |                            |  | 425                             |  | 61 713                            |   | 216 674   | 73 418<br>7 907<br>57 455<br>2 386      | 7 084                       | 12 582   |                               | 309 295                                 | 142 790                  | 823 980   |   |
| Industry - Industrie - Industria  |                              |                            |  |                                 |  |                                   |   | 177 701   | 1 561<br>3 314                          | 8 859                       |  |                               | 113 778                                 | 19 136                   | 328 943   |   |
| Transport - Transport - Transporte  |                              |                            |  |                                 |  |                                   |   |   |   |                             |  |                               | 7 904                                   |                          | 68 673  |   |
| Commerce - Commerce - Comercial   |                              |                            |  |                                 |  |                                   |   |   | 35 628                                  | 1 618                       |  |                               | 72 675                                  | 39 867                   | 116 546   |   |
| Residential - Résidentiel - Residencial   |                              |                            |  |                                 |  |                                   |   |   | 1 330                                   | 1 507                       |  |                               | 112 047                                 | 83 568                   | 234 505   |   |
| Other - Autres - Otros  |                              |                            |  |                                 |  |                                   |   |   | 4 340                                   | 2 209                       | 597  |                               | 2 891                                   | 218                      | 75 314  |   |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |                                 |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |   |                             |  |                               |   |                          |   |   |
| Total - Total - Total   | 198 173                      | 73 073                     | 4 093  | 425                             |  | 76 996                            | 30 267                                      | 332 373   | 77 768                                  | 7 323                       | 23 489   |                               |   |                          |   | 823 980                                 |
| Electricity - Electricité - Eléctrica   | 198 173                      | 73 073                     | 4 093  |                                 |  |                                   |   | 4 863   | 27 706                                  | 223                         | 32   |                               | 113 2                                   |                          | 309 295   |   |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |  |                                   |   | 15 283  | 87 993                                  | 4 128                       | 207  |                               | 9 775                                   |                          | 142 790   |   |
| Direct use - Utilisation directe - Uso directo  |                              |                            |  | 425                             |  | 61 713                            |   | 216 674   | 73 418                                  | 7 084                       | 12 582   |                               |   |                          |   | 371 896                                 |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |                                 |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |   |                             |  |                               |   |                          |   |   |
| Electricity - Electricité - Eléctrica (in/en GWh)   | 73 885                       | 27 244                     | 1 526  |                                 |  |                                   |   | 1813  | 10 330                                  | 83                          | 12   |                               | 422                                     |                          |   | 115 315                                 |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |  |                                 |  |                                   |   | 16 319  | 93 958                                  | 4 408                       | 221  |                               | 10 438                                  |                          |   | 152 470                                 |

## Switzerland

## Switzerland

| 2022 (In/en TJ)   | Hydro/Marine<br>Hydro/Marina                                 | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                        |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER                            | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primariares -<br>Biocombustibles primarios |   |                                | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor         | Total  |
|---|--|----------------------------|--|---------------------------------|-------------------------------|--|--|---|---|---|--------------------------------|--|-------------------------------|---|----------------------------------|--|
|   |  |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |  |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás                   |                                |  |                               |   |                                  |  |
|   | <b>Primary energy - Énergie primaire - Energía primaaria</b> |                            |  |                                 |                               |  |  |   |   |   |                                |  |                               |   |                                  |  |
| Production - Production - Generación  | 107 640  | 540                        | 13 889   | 2 650                           | 14                            |  |  | 22 995                                      | 45 430<br>2 390<br>- 110<br>- 381<br><b>6 573</b><br>190                      | 504<br>6 451<br>- 1<br>- 6535<br><b>6 127</b> | 6 127                          |  | 392<br>- 1                    | 65 335<br>- 58 661                      |                                  | <b>199 789</b><br><b>74 568</b><br><b>- 58 773</b><br><b>- 381</b><br><b>215 202</b><br><b>186</b> |
| Imports - Importations - Importaciones  |  |                            |  |                                 |                               |  |  |   |   |   |                                |  |                               |   |                                  |  |
| Exports - Exportations - Exportaciones  |  |                            |  |                                 |                               |  |  |   |   |   |                                |  |                               |   |                                  |  |
| Stock - Stocks - Inventario (+/-)   |  |                            |  |                                 |                               |  |  |   |   |   |                                |  |                               |   |                                  |  |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>107 640</b>   | <b>540</b>                 | <b>13 889</b>                                  | <b>2 650</b>                    | <b>14</b>                     |  |  | <b>22 995</b>                               | <b>47 710</b>   |   |                                |  | <b>391</b>                    | <b>6 674</b><br>- 4                     |                                  | <b>215 202</b><br><b>186</b>   |
| Differences - Ecarts - Diferencias  |  |                            |  |                                 |                               |  |  |   |   |   |                                |  |                               |   |                                  |  |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |  |                            |  |                                 |                               |  |  |   |   |   |                                |  |                               |   |                                  |  |
| Electricity - Électricité - Electrica   | - 107 640  | - 540                      | - 13 889                                       |                                 |                               |  |  | - 21 693                                    | - 10 603<br>- 20  |   | - 1<br>- 2 702                 |  |                               | 122 069<br>7 484                        | 11 678                           | - 1<br><b>- 15 836</b><br>- 16   |
| CHP - Cogénération - Cogeneración   |  |                            |  |                                 |                               |  |  |   |   |   |                                |  |                               |   |                                  |  |
| Heat - Chaleur - Calor  |  |                            |  |                                 |                               |  |  |   |   |   |                                |  |                               |   |                                  |  |
| Charcoal - Charbon - Carbón   |  |                            |  |                                 |                               |  |  |   |   |   |                                |  |                               |   |                                  |  |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |  |                            |  |                                 |                               |  |  |   |   |   |                                |  |                               |   |                                  |  |
| Other - Autres - Otras  |  |                            |  |                                 |                               |  |  |   |   |   |                                |  |                               |   |                                  |  |
| Own use - Consomm. propre - Uso propio  |  |                            |  |                                 |                               |  |  |   |   |   |                                |  |                               |   |                                  |  |
| Distribution - Distribution - Distribución  |  |                            |  |                                 |                               |  |  |   |   |   |                                |  |                               |   |                                  |  |
| <b>Final consumption - Consommation finale - Consumo final</b>  |  |                            |  |                                 |                               |  |  |   |   |   |                                |  |                               |   |                                  |  |
| <b>Total - Total - Total</b>  |  |                            |  | <b>2 650</b>                    | <b>14</b>                     |  |  | <b>1 302</b>                                | <b>37 087</b><br>11 610   | <b>6 763</b>                                  | <b>3 424</b><br>433            |  | <b>394</b>                    | <b>112 512</b><br>34 146                | <b>10 521</b><br>3 827           | <b>174 667</b><br><b>50 112</b>  |
| Industry - Industrie - Industria  |  |                            |  | 82                              | 14                            |  |  |   |   | 6 763   |                                |  |                               |   |                                  | <b>13 804</b>  |
| Transport - Transport - Transporte  |  |                            |  | 396                             |                               |  |  |   |   | 9 193   | 1035                           |  |                               |   |                                  | <b>45 681</b>  |
| Commerce - Commerce - Comercial   |  |                            |  | 2 158                           |                               |  |  |   |   | 15 403  |                                |  |                               |   |                                  | <b>60 338</b>  |
| Residential - Résidentiel - Residencial   |  |                            |  | 14                              |                               |  |  |   |   | 881   |                                |  |                               |   |                                  | <b>4 731</b>   |
| Other - Autres - Otros  |  |                            |  |                                 |                               |  |  |   |   |   | 1956                           |  |                               |   |                                  |  |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |  |                            |  |                                 |                               |  |  |   |   |   |                                |  |                               |   |                                  |  |
| <b>Total - Total - Total</b>  | <b>93 481</b>  | <b>469</b>                 | <b>12 062</b>                                  | <b>2 650</b>                    | <b>14</b>                     |  |  | <b>11 016</b>                               | <b>43 112</b><br>3 398  | <b>6 763</b>                                  | <b>4 706</b><br>1 282          |  | <b>394</b>                    | <b>112 512</b><br>31 258                | <b>10 521</b><br>38 187          | <b>174 667</b><br><b>50 112</b>  |
| Electricity - Électricité - Electrica   | 93 481   | 469                        | 12 062   |                                 |                               |  |  |   | 2 650   | 14  |                                |  |                               |   |                                  | <b>10 521</b>  |
| Heat - Chaleur - Calor  |  |                            |  |                                 |                               |  |  |   |   |   |                                |  |                               |   |                                  | <b>51 634</b>  |
| Direct use - Utilisation directe - Uso directo  |  |                            |  |                                 |                               |  |  |   |   |   |                                |  |                               |   |                                  |  |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |  |                            |  |                                 |                               |  |  |   |   |   |                                |  |                               |   |                                  |  |
| Electricity - Électricité - Electrica (in/en GWh)   | 29 900   | 150                        | 3 858  |                                 |                               |  |  |   | 1087  | 582   |                                | 410  |                               |   |                                  | <b>35 987</b>  |
| Heat - Chaleur - Calor (in/en TJ)   |  |                            |  |                                 |                               |  |  |   | 7 010   | 4 668   |                                |  |                               |   |                                  | <b>11 678</b>  |
| 2021 (In/en TJ)   | Hydro/Marine<br>Hydro/Marina                                 | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                        |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER                            | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primariares -<br>Biocombustibles primarios |   |                                | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor         | Total  |
|   |  |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |  |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás                   |                                |  |                               |   |                                  |  |
|   | <b>Primary energy - Énergie primaire - Energía primaaria</b> |                            |  |                                 |                               |  | <b>Primary energy - Énergie primaire - Energía primaaria</b> |   |   |   |                                |  |                               |   |                                  |  |
| Production - Production - Generación  | 133 070  | 522                        | 10 231   | 2 662                           | 6                             |  |  | 23 950                                      | 50 750<br>1 880<br>- 90   | 490   | 5 888                          |  | 392                           | 72 221<br>- 66 695                      |                                  | <b>227 570</b><br><b>80 489</b><br><b>- 66 786</b>   |
| Imports - Importations - Importaciones  |  |                            |  |                                 |                               |  |  |   |   | 5 996   |                                |  |                               |   |                                  | <b>139</b>   |
| Exports - Exportations - Exportaciones  |  |                            |  |                                 |                               |  |  |   |   | 139   |                                |  |                               |   |                                  | <b>241 412</b>   |
| Stock - Stocks - Inventario (+/-)   |  |                            |  |                                 |                               |  |  |   |   | 6 625   | 5 888                          |  | 391                           | <b>5 527</b><br>2                       | - 0                              | <b>140</b>   |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>133 070</b>   | <b>522</b>                 | <b>10 231</b>                                  | <b>2 662</b>                    | <b>6</b>                      |  |  | <b>23 950</b>                               | <b>52 540</b>   |   |                                |  |                               |   |                                  |  |
| Differences - Ecarts - Diferencias  |  |                            |  |                                 |                               |  |  |   |   | 138   |                                |  |                               |   |                                  |  |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |  |                            |  |                                 |                               |  |  |   |   |   |                                |  |                               |   |                                  |  |
| Electricity - Électricité - Electrica   | - 133 070  | - 522                      | - 10 231                                       |                                 |                               |  |  | - 22 546                                    | - 10 630<br>- 20  |   | - 1<br>- 2 664                 |  |                               | 143 824<br>7 438                        | 12 880                           | - 1<br><b>- 15 522</b><br>- 16   |
| CHP - Cogénération - Cogeneración   |  |                            |  |                                 |                               |  |  |   |   |   |                                |  |                               |   |                                  |  |
| Heat - Chaleur - Calor  |  |                            |  |                                 |                               |  |  |   |   |   |                                |  |                               |   |                                  |  |
| Charcoal - Charbon - Carbón   |  |                            |  |                                 |                               |  |  |   |   |   |                                |  |                               |   |                                  |  |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |  |                            |  |                                 |                               |  |  |   |   |   |                                |  |                               |   |                                  |  |
| Other - Autres - Otras  |  |                            |  |                                 |                               |  |  |   |   |   |                                |  |                               |   |                                  |  |
| Own use - Consomm. propre - Uso propio  |  |                            |  |                                 |                               |  |  |   |   |   |                                |  |                               |   |                                  |  |
| Distribution - Distribution - Distribución  |  |                            |  |                                 |                               |  |  |   |   |   |                                |  |                               |   |                                  |  |
| <b>Final consumption - Consommation finale - Consumo final</b>  |  |                            |  |                                 |                               |  |  |   |   |   |                                |  |                               |   |                                  |  |
| <b>Total - Total - Total</b>  |  |                            |  | <b>2 662</b>                    | <b>6</b>                      |  |  | <b>1 404</b>                                | <b>41 890</b><br>11 078   | <b>6 763</b>                                  | <b>3 223</b><br>413            |  | <b>394</b>                    | <b>133 105</b><br>40 172                | <b>11 521</b><br>7 755           | <b>200 969</b><br><b>55 673</b>  |
| Industry - Industrie - Industria  |  |                            |  | 82                              | 6                             |  |  |   |   | 6 763   |                                |  |                               |   |                                  | <b>14 518</b>  |
| Transport - Transport - Transporte  |  |                            |  | 399                             |                               |  |  |   | 7 930   | 1 047   |                                |  |                               |   |                                  | <b>50 357</b>  |
| Commerce - Commerce - Comercial   |  |                            |  | 2 167                           |                               |  |  |   | 22 169  |   |                                |  |                               |   |                                  | <b>75 723</b>  |
| Residential - Résidentiel - Residencial   |  |                            |  | 14                              |                               |  |  |   | 713   | 1 763   |                                |  |                               |   |                                  | <b>4 698</b>   |
| Other - Autres - Otros  |  |                            |  |                                 |                               |  |  |   |   |   |                                |  |                               |   |                                  |  |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |  |                            |  |                                 |                               |  |  |   |   |   |                                |  |                               |   |                                  |  |
| <b>Total - Total - Total</b>  | <b>117 098</b>   | <b>459</b>                 | <b>9 003</b>                                   | <b>2 662</b>                    | <b>6</b>                      |  |  | <b>11 669</b>                               | <b>48 408</b><br>3 510<br>6 755<br>1 404                                      | <b>6 763</b>                                  | <b>4 506</b><br>1 283<br>6 763 |  | <b>394</b>                    | <b>133 105</b><br>46 202<br>2 208       | <b>11 521</b><br>36 768<br>2 208 | <b>200 969</b><br><b>56 342</b>  |
| Electricity - Électricité - Electrica   | 117 098  | 459                        | 9 003  |                                 |                               |  |  |   | 3 510<br>6 755<br>1 404   | 1 752<br>4 766<br>41 890                      | 1 283<br>3 223                 |  |                               |   |                                  | <b>133 105</b><br>11 521   |
| Heat - Chaleur - Calor  |  |                            |  |                                 |                               |  |  |   |   |   |                                |  |                               |   |                                  |  |
| Direct use - Utilisation directe - Uso directo  |  |                            |  |                                 |                               |  |  |   |   |   |                                |  |                               |   |                                  |  |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |  |                            |  |                                 |                               |  |  |   |   |   |                                |  |                               |   |                                  |  |
| Electricity - Électricité - Electrica (in/en GWh)   | 36 964   | 145                        | 2 842  |                                 |                               |  |  |   | 1108  | 553   |                                | 405  |                               |   |                                  | <b>42 017</b>  |
| Heat - Chaleur - Calor (in/en TJ)   |  |                            |  |                                 |                               |  |  |   | 7 552   | 5 328   |                                |  |                               |   |                                  | <b>12 880</b>  |

## Thailand

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                               |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                             |               | Pellets/briq.<br>Granules/briq.<br>Pellets/briq.  | Charcoal<br>Charbon<br>Carbón                                  | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total                          |                |  |
|---|------------------------------|----------------------------|---|---------------------------------|-------------------------------|--|-----------------------------------|---|---|-----------------------------|---------------|---|--|---|--------------------------|--------------------------------|----------------|--|
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás |               |   |  |   |                          |                                |                |  |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaaria |                                 |                               |  |                                   |   | Primary energy - Énergie primaire - Energía primaaria                       |                             |               |   |  |   |                          |                                |                |  |
| Production - Production - Generación  | 22 826                       | 10 816                     | 17 998  | 462                             | 53                            |  |                                   | 12 798                                      | 898 153   | 81 330                      | 54 083        |   |  | 25 480<br>- 1 492                       |                          | 1 098 519<br>25 480<br>- 1 492 |                |  |
| Imports - Importations - Importaciones  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |               |   |  |   |                          |                                |                |  |
| Exports - Exportations - Exportaciones  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |               |   |  |   |                          |                                |                |  |
| Stock - Stocks - Inventario (+/-)   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |               |   |  |   |                          |                                |                |  |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>22 826</b>                | <b>10 816</b>              | <b>17 998</b>   | <b>462</b>                      | <b>53</b>                     |  |                                   | <b>12 798</b>                               | <b>898 153</b>  | <b>81 330</b>               | <b>54 083</b> |   |  | <b>23 988</b>                           |                          | <b>1 122 507</b>               |                |  |
| Differences - Ecarts - Diferencias  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |               |   |  |   |                          | <b>- 911</b>                   |                |  |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |               | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |  |   |                          |                                |                |  |
| Electricity - Électricité - Electrica   | - 22 826                     | - 10 816                   | - 17 998  |                                 | - 53                          |  |                                   | - 7 729                                     | - 42 295<br>- 445 119   |                             | - 25 025      |   |  | 66 887<br>70 016                        |                          | - 52 126<br>- 382 832          |                |  |
| CHP - Cogénération - Cogeneración   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |               |   |  |   |                          |                                |                |  |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |               |   |  |   |                          |                                |                |  |
| Charcoal - Charbon - Carbón   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |               |   |  |   |                          |                                |                |  |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |               |   |  |   |                          |                                |                |  |
| Other - Autres - Otras  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |               |   |  |   |                          |                                |                |  |
| Own use - Consomm. propre - Uso propio  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |               |   |  |   |                          |                                |                |  |
| Distribution - Distribution - Distribución  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |               |   |  |   |                          |                                |                |  |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |               | <b>Final consumption - Consommation finale - Consumo final</b>  |  |   |                          |                                |                |  |
| <b>Total - Total - Total</b>  |                              |                            |   | <b>462</b>                      |                               |  | <b>5 069</b>                      |   | <b>329 730</b>  | <b>80 419</b>               | <b>29 058</b> |   | <b>28 245</b>  | <b>149 656</b>                          |                          | <b>622 639</b>                 |                |  |
| Industry - Industrie - Industria  |                              |                            |   |                                 |                               |  | 5 069                             |   | 219 585   |                             | 29 058        |   |  | 59 119                                  |                          | <b>312 831</b>                 |                |  |
| Transport - Transport - Transporte  |                              |                            |   |                                 |                               |  |                                   |   | 80 419  |                             |               |   |  | 202                                     |                          | <b>80 621</b>                  |                |  |
| Commerce - Commerce - Comercial   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |               |   |  | 51 331                                  |                          | <b>51 793</b>                  |                |  |
| Residential - Résidentiel - Residencial   |                              |                            |   |                                 |                               |  |                                   |   | 110 145   |                             |               |   |  | 38 772                                  |                          | <b>177 162</b>                 |                |  |
| Other - Autres - Otros  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |               |   |  | 232                                     |                          | <b>232</b>                     |                |  |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |               | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |  |   |                          |                                |                |  |
| <b>Total - Total - Total</b>  | <b>24 952</b>                | <b>11 823</b>              | <b>19 674</b>   | <b>484</b>                      | <b>6</b>                      |  | <b>5 679</b>                      |   | <b>416 126</b>  | <b>80 419</b>               | <b>35 232</b> |   | <b>28 245</b>  |   |                          | <b>622 639</b>                 |                |  |
| Electricity - Électricité - Electrica   | 24 952                       | 11 823                     | 19 674  | 22                              | 6                             |  | 610                               |   | 86 396  |                             | 6 174         |   |  |   |                          |                                | <b>149 656</b> |  |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |               |   |  |   |                          |                                |                |  |
| Direct use - Utilisation directe - Uso directo  |                              |                            |   | <b>462</b>                      |                               |  | <b>5 069</b>                      |   | <b>329 730</b>  | <b>80 419</b>               | <b>29 058</b> |   | <b>28 245</b>  |   |                          | <b>472 983</b>                 |                |  |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |   |                                 |                               |  |                                   |   |   |                             |               | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |  |   |                          |                                |                |  |
| Electricity - Électricité - Electrica (in/en GWh)   | 6 340                        | 3 004                      | 4 999   | 5                               | 1                             |  | 155                               |   | 21 954  |                             | 1 569         |   |  |   |                          |                                | <b>38 029</b>  |  |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |               |   |  |   |                          |                                |                |  |
| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                               |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                             |               | Pellets/briq.<br>Granules/briq.<br>Pellets/briq.  | Charcoal<br>Charbon<br>Carbón                                  | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total                          |                |  |
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás |               |   |  |   |                          |                                |                |  |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaaria |                                 |                               |  |                                   |   | Primary energy - Énergie primaire - Energía primaaria                       |                             |               |   |  |   |                          |                                |                |  |
| Production - Production - Generación  | 15 010                       | 12 801                     | 18 040  | 460                             | 52                            |  |                                   | 13 303                                      | 730 611   | 88 941                      | 53 363        |   |  | 1 762<br>- 635                          | 23 153<br>- 1 385        | <b>932 582</b>                 |                |  |
| Imports - Importations - Importaciones  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |               |   |  |   |                          | <b>24 915</b>                  |                |  |
| Exports - Exportations - Exportaciones  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |               |   |  |   |                          | <b>- 2 020</b>                 |                |  |
| Stock - Stocks - Inventario (+/-)   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |               |   |  |   |                          | <b>1 091</b>                   |                |  |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>15 010</b>                | <b>12 801</b>              | <b>18 040</b>   | <b>460</b>                      | <b>52</b>                     |  |                                   | <b>13 303</b>                               | <b>730 611</b>  | <b>90 032</b>               | <b>53 363</b> |   |  | <b>1 126</b>                            | <b>21 768</b>            |                                | <b>956 567</b> |  |
| Differences - Ecarts - Diferencias  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |               |   |  |   |                          |                                |                |  |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |               | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |  |   |                          |                                |                |  |
| Electricity - Électricité - Electrica   | - 15 010                     | - 12 801                   | - 18 040  |                                 | - 52                          |  |                                   | - 7 234                                     | - 21 920<br>- 339 053   |                             | - 24 306      |   |  | 62 946<br>66 663                        |                          | <b>- 29 183</b>                |                |  |
| CHP - Cogénération - Cogeneración   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |               |   |  |   |                          | <b>- 279 624</b>               |                |  |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |                               |  |                                   |   | - 76 024  |                             |               |   |  | 26 512                                  |                          | <b>- 49 513</b>                |                |  |
| Charcoal - Charbon - Carbón   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |               |   |  |   |                          |                                |                |  |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |               |   |  |   |                          |                                |                |  |
| Other - Autres - Otras  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |               |   |  |   |                          |                                |                |  |
| Own use - Consomm. propre - Uso propio  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |               |   |  |   |                          |                                |                |  |
| Distribution - Distribution - Distribución  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |               |   |  |   |                          |                                |                |  |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |               |   | <b>Final consumption - Consommation finale - Consumo final</b> |   |                          |                                |                |  |
| <b>Total - Total - Total</b>  |                              |                            |   | <b>460</b>                      |                               |  | <b>6 069</b>                      |   | <b>293 614</b>  | <b>90 032</b>               | <b>29 057</b> |   | <b>27 638</b>  | <b>139 548</b>                          |                          | <b>586 419</b>                 |                |  |
| Industry - Industrie - Industria  |                              |                            |   |                                 |                               |  | 6 069                             |   | 185 654   |                             | 29 057        |   |  | 55 674                                  |                          | <b>276 455</b>                 |                |  |
| Transport - Transport - Transporte  |                              |                            |   |                                 |                               |  |                                   |   | 90 032  |                             |               |   |  | 155                                     |                          | <b>90 187</b>                  |                |  |
| Commerce - Commerce - Comercial   |                              |                            |   |                                 |                               |  |                                   |   | 107 960   |                             |               |   |  | 45 621                                  |                          | <b>46 082</b>                  |                |  |
| Residential - Résidentiel - Residencial   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |               |   |  | 27 638                                  | 37 817                   | <b>173 415</b>                 |                |  |
| Other - Autres - Otros  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |               |   |  | 281                                     |                          | <b>281</b>                     |                |  |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |   |                                 |                               |  |                                   |   |   |                             |               | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |  |   |                          |                                |                |  |
| <b>Total - Total - Total</b>  | <b>16 161</b>                | <b>13 783</b>              | <b>19 424</b>   | <b>482</b>                      | <b>6</b>                      |  | <b>6 825</b>                      |   | <b>373 343</b>  | <b>90 032</b>               | <b>38 726</b> |   | <b>27 638</b>  |   |                          | <b>586 419</b>                 |                |  |
| Electricity - Électricité - Electrica   | 16 161                       | 13 783                     | 19 424  | 21                              | 6                             |  | 756                               |   | 79 729  |                             | 9 669         |   |  | 27 638                                  |                          | <b>139 548</b>                 |                |  |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |                               |  |                                   |   | 293 614   |                             | 29 057        |   |  |   |                          |                                |                |  |
| Direct use - Utilisation directe - Uso directo  |                              |                            |   | <b>460</b>                      |                               |  | <b>6 069</b>                      |   |   |                             |               |   |  |   |                          | <b>446 871</b>                 |                |  |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |   |                                 |                               |  |                                   |   |   |                             |               | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |  |   |                          |                                |                |  |
| Electricity - Électricité - Electrica (in/en GWh)   | 4 169                        | 3 556                      | 5 011   | 5                               | 1                             |  | 195                               |   | 20 570  |                             | 2 495         |   |  |   |                          |                                | <b>36 003</b>  |  |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |   |                                 |                               |  |                                   |   |   |                             |               |   |  |   |                          |                                |                |  |

## Timor-Leste

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                               |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios   |                                 |                             | Pellets/briq.<br>Granules/briq.<br>Pellets/briq.      | Charcoal<br>Carbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total |       |
|---|------------------------------|----------------------------|---|---------------------------------|--|-----------------------------------|---|---|---------------------------------|-----------------------------|---|------------------------------|---|--------------------------|-------|-------|
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás |   |                              |   |                          |       |       |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaaria |                                 |  |                                   |   |   |                                 |                             | Primary energy - Énergie primaire - Energía primaaria |                              |   |                          |       |       |
| Production - Production - Generación  |                              |                            | 2   | 2                               |  |                                   |   | 8 511   |                                 | 1                           |   |                              |   |                          |       | 8 516 |
| Imports - Importations - Importaciones  |                              |                            |   |                                 |  |                                   |   | 8 511   |                                 | 1                           |   |                              |   |                          |       | 8 516 |
| Exports - Exportations - Exportaciones  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |   |                          |       |       |
| Stock - Stocks - Inventario (+/-)   |                              |                            | 2   | 2                               |  |                                   |   |   |                                 |                             |   |                              |   |                          |       |       |
| <b>Supply - Approvisionnement - Oferta</b>  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |   |                          |       |       |
| Differences - Ecarts - Diferencias  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |   |                          |       |       |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |   |                                 |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                                 |                             |   |                              |   |                          |       |       |
| Electricity - Electricité - Electrica   |                              |                            | - 2   |                                 |  |                                   |   |   |                                 | - 1                         |   |                              |   |                          |       | - 0   |
| CHP - Cogénération - Cogeneración   |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |   |                          |       |       |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |   |                          |       |       |
| Charcoal - Charbon - Carbón   |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |   |                          |       |       |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |   |                          |       |       |
| Other - Autres - Otras  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |   |                          |       |       |
| Own use - Consomm. propre - Uso propio  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |   |                          |       |       |
| Distribution - Distribution - Distribución  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |   |                          |       | - 1   |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |   |                                 |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                                 |                             |   |                              |   |                          |       |       |
| Total - Total - Total   |                              |                            | 2   |                                 |  |                                   |   | 8 511   |                                 | 1                           |   |                              |   |                          |       | 8 514 |
| Industry - Industrie - Industria  |                              |                            |   |                                 |  |                                   |   | 8 511   |                                 | 0                           |   |                              |   |                          |       | 1     |
| Transport - Transport - Transporte  |                              |                            | 1   |                                 |  |                                   |   |   |                                 | 1                           |   |                              |   |                          |       | 8 513 |
| Commerce - Commerce - Comercial   |                              |                            | 1   |                                 |  |                                   |   |   |                                 |                             |   |                              |   |                          |       | 0     |
| Residential - Résidentiel - Residencial   |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |   |                          |       |       |
| Other - Autres - Otras  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |   |                          |       |       |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |   |                                 |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                                 |                             |   |                              |   |                          |       |       |
| Total - Total - Total   |                              |                            | 1   | 2                               |  |                                   |   | 8 511   |                                 | 1                           |   |                              |   |                          |       | 8 514 |
| Electricity - Electricité - Electrica   |                              |                            | 1   |                                 |  |                                   |   | 8 511   |                                 | 0                           |   |                              |   |                          |       | 1     |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |  |                                   |   | 8 511   |                                 | 1                           |   |                              |   |                          |       | 8 513 |
| Direct use - Utilisation directe - Uso directo  |                              |                            | 2   |                                 |  |                                   |   |   |                                 |                             |   |                              |   |                          |       |       |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |   |                                 |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                                 |                             |   |                              |   |                          |       |       |
| Electricity - Electricité - Electrica (in/en GWh)   |                              |                            | 1   |                                 |  |                                   |   |   |                                 | 0                           |   |                              |   |                          |       | 1     |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |   |                          |       |       |
| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                               |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios   |                                 |                             | Pellets/briq.<br>Granules/briq.<br>Pellets/briq.      | Charcoal<br>Carbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total |       |
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás |   |                              |   |                          |       |       |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaaria |                                 |  |                                   |   |   |                                 |                             | Primary energy - Énergie primaire - Energía primaaria |                              |   |                          |       |       |
| Production - Production - Generación  |                              |                            | 2   | 1                               |  |                                   |   | 8 511   |                                 | 1                           |   |                              |   |                          |       | 8 515 |
| Imports - Importations - Importaciones  |                              |                            |   |                                 |  |                                   |   | 8 511   |                                 | 1                           |   |                              |   |                          |       | 8 515 |
| Exports - Exportations - Exportaciones  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |   |                          |       |       |
| Stock - Stocks - Inventario (+/-)   |                              |                            | 2   | 1                               |  |                                   |   |   |                                 |                             |   |                              |   |                          |       |       |
| <b>Supply - Approvisionnement - Oferta</b>  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |   |                          |       |       |
| Differences - Ecarts - Diferencias  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |   |                          |       |       |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |   |                                 |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                                 |                             |   |                              |   |                          |       |       |
| Electricity - Electricité - Electrica   |                              |                            | - 2   |                                 |  |                                   |   |   |                                 | - 1                         |   |                              |   |                          |       | - 0   |
| CHP - Cogénération - Cogeneración   |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |   |                          |       |       |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |   |                          |       |       |
| Charcoal - Charbon - Carbón   |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |   |                          |       |       |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |   |                          |       |       |
| Other - Autres - Otras  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |   |                          |       |       |
| Own use - Consomm. propre - Uso propio  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |   |                          |       |       |
| Distribution - Distribution - Distribución  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |   |                          |       | - 1   |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |   |                                 |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                                 |                             |   |                              |   |                          |       |       |
| Total - Total - Total   |                              |                            | 1   |                                 |  |                                   |   | 8 511   |                                 | 1                           |   |                              |   |                          |       | 8 514 |
| Industry - Industrie - Industria  |                              |                            |   |                                 |  |                                   |   | 8 511   |                                 | 0                           |   |                              |   |                          |       | 1     |
| Transport - Transport - Transporte  |                              |                            | 1   |                                 |  |                                   |   | 8 511   |                                 | 1                           |   |                              |   |                          |       | 8 513 |
| Commerce - Commerce - Comercial   |                              |                            | 1   |                                 |  |                                   |   |   |                                 |                             |   |                              |   |                          |       | 0     |
| Residential - Résidentiel - Residencial   |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |   |                          |       |       |
| Other - Autres - Otras  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |   |                          |       |       |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |   |                                 |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                                 |                             |   |                              |   |                          |       |       |
| Total - Total - Total   |                              |                            | 1   | 1                               |  |                                   |   | 8 511   |                                 | 1                           |   |                              |   |                          |       | 8 514 |
| Electricity - Electricité - Electrica   |                              |                            | 1   |                                 |  |                                   |   | 8 511   |                                 | 0                           |   |                              |   |                          |       | 1     |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |  |                                   |   | 8 511   |                                 | 1                           |   |                              |   |                          |       | 8 513 |
| Direct use - Utilisation directe - Uso directo  |                              |                            | 1   |                                 |  |                                   |   |   |                                 |                             |   |                              |   |                          |       |       |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |   |                                 |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                                 |                             |   |                              |   |                          |       |       |
| Electricity - Electricité - Electrica (in/en GWh)   |                              |                            | 1   |                                 |  |                                   |   |   |                                 | 0                           |   |                              |   |                          |       | 1     |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |   |                              |   |                          |       |       |

Togo

Togo

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Eoliennes<br>Éolica | Solar - Solaire - Solar                              |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios   |                             |  | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total         |
|---|------------------------------|-----------------------------|--|---------------------------------|-------------------------------|--|-----------------------------------|---|---|-----------------------------|--|--|-------------------------------|---|--------------------------|---------------|
|   |                              |                             | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica       | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás |  |  |                               |   |                          |               |
|   |                              |                             | Primary energy - Énergie primaire - Energía primaria |                                 |                               |  |                                   |   | Primary energy - Énergie primaire - Energía primaria  |                             |  |  |                               |   |                          |               |
| Production - Production - Generación  | 63                           |                             |  | 371                             |                               |  |                                   |   | 50 168  |                             |  |  | 2                             | 894                                     |                          | 50 603        |
| Imports - Importations - Importaciones  |                              |                             |  |                                 |                               |  |                                   | - 0   |   |                             |  |  |                               |   |                          | 896           |
| Exports - Exportations - Exportaciones  |                              |                             |  |                                 |                               |  |                                   |   | 50 168  |                             |  |  | 2                             | 894                                     |                          | - 0           |
| Stock - Stocks - Inventario (+/-)   |                              |                             |  | 371                             |                               |  |                                   |   |   |                             |  |  |                               |   |                          | 51 498        |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>63</b>                    |                             |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          | <b>- 11</b>   |
| Differences - Ecarts - Diferencias  |                              |                             |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                             |  |                                 |                               |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                             |  |  |                               |   |                          |               |
| Electricity - Électricité - Electrica   | - 63                         |                             |  | - 371                           |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |
| CHP - Cogénération - Cogeneración   |                              |                             |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |
| Heat - Chaleur - Calor  |                              |                             |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |
| Charcoal - Charbon - Carbón   |                              |                             |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                             |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |
| Other - Autres - Otras  |                              |                             |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |
| Own use - Consomm. propre - Uso propio  |                              |                             |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |
| Distribution - Distribution - Distribución  |                              |                             |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                             |  |                                 |                               |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                             |  |  |                               |   |                          |               |
| Total - Total - Total   |                              |                             |  |                                 |                               |  |                                   |   | 29 682  |                             |  |  | 9 275                         | 1 183                                   |                          | 40 141        |
| Industry - Industrie - Industria  |                              |                             |  |                                 |                               |  |                                   |   |   |                             |  |  | 551                           |   |                          |               |
| Transport - Transport - Transporte  |                              |                             |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |
| Commerce - Commerce - Comercial   |                              |                             |  |                                 |                               |  |                                   |   | 4 712   |                             |  |  | 467                           | 156                                     |                          | 5 334         |
| Residential - Résidentiel - Residencial   |                              |                             |  |                                 |                               |  |                                   |   | 24 970  |                             |  |  | 8 809                         | 475                                     |                          | 34 254        |
| Other - Autres - Otros  |                              |                             |  |                                 |                               |  |                                   |   |   |                             |  |  | 2                             |   |                          | 2             |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                             |  |                                 |                               |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                             |  |  |                               |   |                          |               |
| <b>Total - Total - Total</b>  | <b>173</b>                   |                             |  | <b>1 011</b>                    |                               |  |                                   |   | <b>29 682</b>   |                             |  |  | <b>9 275</b>                  | <b>1 183</b>                            |                          | <b>40 141</b> |
| Electricity - Électricité - Electrica   | 173                          |                             |  | 1 011                           |                               |  |                                   |   |   |                             |  |  |                               |   |                          | 1183          |
| Heat - Chaleur - Calor  |                              |                             |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          | 38 957        |
| Direct use - Utilisation directe - Uso directo  |                              |                             |  |                                 |                               |  |                                   |   | 29 682  |                             |  |  | 9 275                         |   |                          |               |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                             |  |                                 |                               |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                             |  |  |                               |   |                          |               |
| Electricity - Électricité - Electrica (in/en GWh)   | 18                           |                             |  | 103                             |                               |  |                                   |   |   |                             |  |  |                               |   |                          | 121           |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                             |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |
| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Eoliennes<br>Éolica | Solar - Solaire - Solar                              |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios   |                             |  | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total         |
|   |                              |                             | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica       | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás |  |  |                               |   |                          |               |
|   |                              |                             | Primary energy - Énergie primaire - Energía primaria |                                 |                               |  |                                   |   | Primary energy - Énergie primaire - Energía primaria  |                             |  |  |                               |   |                          |               |
| Production - Production - Generación  | 308                          |                             |  | 261                             |                               |  |                                   |   | 50 168  |                             |  |  | 1                             | 1 274                                   |                          | 50 737        |
| Imports - Importations - Importaciones  |                              |                             |  |                                 |                               |  |                                   | - 0   |   |                             |  |  | - 1                           |   |                          | 1275          |
| Exports - Exportations - Exportaciones  |                              |                             |  | 261                             |                               |  |                                   |   | 50 168  |                             |  |  | 1                             | 1 274                                   |                          | 52 011        |
| Stock - Stocks - Inventario (+/-)   |                              |                             |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          | - 13          |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>308</b>                   |                             |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |
| Differences - Ecarts - Diferencias  |                              |                             |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                             |  |                                 |                               |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                             |  |  |                               |   |                          |               |
| Electricity - Électricité - Electrica   | - 308                        |                             |  | - 261                           |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |
| CHP - Cogénération - Cogeneración   |                              |                             |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |
| Heat - Chaleur - Calor  |                              |                             |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |
| Charcoal - Charbon - Carbón   |                              |                             |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                             |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |
| Other - Autres - Otras  |                              |                             |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |
| Own use - Consomm. propre - Uso propio  |                              |                             |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |
| Distribution - Distribution - Distribución  |                              |                             |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                             |  |                                 |                               |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                             |  |  |                               |   |                          |               |
| Total - Total - Total   |                              |                             |  |                                 |                               |  |                                   |   | 30 125  |                             |  |  | 9 074                         | 1 666                                   |                          | 40 864        |
| Industry - Industrie - Industria  |                              |                             |  |                                 |                               |  |                                   |   |   |                             |  |  | 782                           |   |                          |               |
| Transport - Transport - Transporte  |                              |                             |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |
| Commerce - Commerce - Comercial   |                              |                             |  |                                 |                               |  |                                   |   | 4 274   |                             |  |  | 460                           | 229                                     |                          | 4 963         |
| Residential - Résidentiel - Residencial   |                              |                             |  |                                 |                               |  |                                   |   | 25 850  |                             |  |  | 8 614                         | 653                                     |                          | 35 117        |
| Other - Autres - Otros  |                              |                             |  |                                 |                               |  |                                   |   |   |                             |  |  | 2                             |   |                          | 2             |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                             |  |                                 |                               |  |                                   |   | <b>30 125</b>   |                             |  |  | <b>9 074</b>                  | <b>1 666</b>                            |                          | <b>40 864</b> |
| <b>Total - Total - Total</b>  | <b>902</b>                   |                             |  | <b>764</b>                      |                               |  |                                   |   | <b>30 125</b>   |                             |  |  | <b>9 074</b>                  | <b>1 666</b>                            |                          | <b>39 198</b> |
| Electricity - Électricité - Electrica   | 902                          |                             |  | 764                             |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |
| Heat - Chaleur - Calor  |                              |                             |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |
| Direct use - Utilisation directe - Uso directo  |                              |                             |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                             |  |                                 |                               |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                             |  |  |                               |   |                          |               |
| Electricity - Électricité - Electrica (in/en GWh)   | 86                           |                             |  | 73                              |                               |  |                                   |   |   |                             |  |  |                               |   |                          | 158           |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                             |  |                                 |                               |  |                                   |   |   |                             |  |  |                               |   |                          |               |

## Trinidad and Tobago

## Trinidad and Tobago

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne | Solar - Solaire - Solar                               |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primaires -<br>Biocombustibles primarios   |                                 |                             | Pellets/briq.<br>Granules/briq.<br>Pellets/briq.      | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total |            |
|---|------------------------------|------------------|---|---------------------------------|--|-----------------------------------|---|---|---------------------------------|-----------------------------|---|-------------------------------|---|--------------------------|-------|------------|
|   |                              |                  | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás |   |                               |   |                          |       |            |
|   |                              |                  | Primary energy - Énergie primaire - Energía primaaria |                                 |  |                                   |   |   |                                 |                             | Primary energy - Énergie primaire - Energía primaaria |                               |   |                          |       |            |
| Production - Production - Generación  |                              |                  | 0   | 22                              |  |                                   |   |   |                                 | 333                         | 0   |                               |   | 19                       |       | 355        |
| Imports - Importations - Importaciones  |                              |                  |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   | 19                       |       | 20         |
| Exports - Exportations - Exportaciones  |                              |                  |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   | 19                       |       |            |
| Stock - Stocks - Inventario (+/-)   |                              |                  |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |       |            |
| <b>Supply - Approvisionnement - Oferta</b>  |                              |                  | <b>0</b>  | <b>22</b>                       |  |                                   |   |   |                                 | <b>333</b>                  |   |                               |   | <b>19</b>                |       | <b>375</b> |
| Differences - Ecarts - Diferencias  |                              |                  |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |       |            |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                  |   |                                 |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                                 |                             |   |                               |   |                          |       |            |
| Electricity - Électricité - Electrica   |                              |                  | - 0   | - 22                            |  |                                   |   |   |                                 |                             |   |                               |   | 23                       |       | - 0        |
| CHP - Cogénération - Cogeneración   |                              |                  |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |       |            |
| Heat - Chaleur - Calor  |                              |                  |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |       |            |
| Charcoal - Charbon - Carbón   |                              |                  |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |       |            |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                  |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |       |            |
| Other - Autres - Otras  |                              |                  |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |       |            |
| Own use - Consomm. propre - Uso propio  |                              |                  |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |       |            |
| Distribution - Distribution - Distribución  |                              |                  |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   | - 1                      |       | - 1        |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                  |   |                                 |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                                 |                             |   |                               |   |                          |       |            |
| <b>Total - Total - Total</b>  |                              |                  |   |                                 |  |                                   |   | <b>210</b>  |                                 |                             |   |                               | <b>75</b>                               | <b>21</b>                |       | <b>306</b> |
| Industry - Industrie - Industria  |                              |                  |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   | 11                       |       |            |
| Transport - Transport - Transporte  |                              |                  |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |       |            |
| Commerce - Commerce - Comercial   |                              |                  |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |       |            |
| Residential - Résidentiel - Residencial   |                              |                  |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |       |            |
| Other - Autres - Otros  |                              |                  |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   | 0                        |       |            |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                  |   |                                 |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                                 |                             |   |                               |   |                          |       |            |
| <b>Total - Total - Total</b>  |                              |                  | <b>0</b>  | <b>21</b>                       |  |                                   |   | <b>210</b>  |                                 |                             |   |                               | <b>75</b>                               |                          |       | <b>306</b> |
| Electricity - Électricité - Electrica   |                              |                  | 0   | 21                              |  |                                   |   |   |                                 |                             |   |                               |   |                          |       | 21         |
| Heat - Chaleur - Calor  |                              |                  |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |       |            |
| Direct use - Utilisation directe - Uso directo  |                              |                  |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   | 75                       |       | 285        |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                  |   |                                 |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                                 |                             |   |                               |   |                          |       |            |
| Electricity - Électricité - Electrica (in/en GWh)   |                              |                  | 0   | 6                               |  |                                   |   |   |                                 |                             |   |                               |   |                          |       | 6          |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                  |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |       |            |
| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne | Solar - Solaire - Solar                               |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primaires -<br>Biocombustibles primarios   |                                 |                             | Pellets/briq.<br>Granules/briq.<br>Pellets/briq.      | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total |            |
|   |                              |                  | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos            |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás     |                             |   |                               |   |                          |       |            |
|   |                              |                  | Primary energy - Énergie primaire - Energía primaaria |                                 |  |                                   |   |   |                                 |                             | Primary energy - Énergie primaire - Energía primaaria |                               |   |                          |       |            |
| Production - Production - Generación  |                              |                  | 0   | 22                              |  |                                   |   |   |                                 | 336                         | 0   |                               |   | 26                       |       | 358        |
| Imports - Importations - Importaciones  |                              |                  |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |       | 26         |
| Exports - Exportations - Exportaciones  |                              |                  |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |       |            |
| Stock - Stocks - Inventario (+/-)   |                              |                  |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |       |            |
| <b>Supply - Approvisionnement - Oferta</b>  |                              |                  | <b>0</b>  | <b>22</b>                       |  |                                   |   |   |                                 | <b>336</b>                  |   |                               |   | <b>26</b>                |       | <b>385</b> |
| Differences - Ecarts - Diferencias  |                              |                  |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |       |            |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                  |   |                                 |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                                 |                             |   |                               |   |                          |       |            |
| Electricity - Électricité - Electrica   |                              |                  | - 0   | - 22                            |  |                                   |   |   |                                 |                             |   |                               |   | 23                       |       | - 0        |
| CHP - Cogénération - Cogeneración   |                              |                  |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |       |            |
| Heat - Chaleur - Calor  |                              |                  |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |       |            |
| Charcoal - Charbon - Carbón   |                              |                  |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   | 56                       |       | - 67       |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                  |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |       |            |
| Other - Autres - Otras  |                              |                  |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   | - 1                      |       | - 1        |
| Own use - Consomm. propre - Uso propio  |                              |                  |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |       |            |
| Distribution - Distribution - Distribución  |                              |                  |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |       |            |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                  |   |                                 |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                                 |                             |   |                               |   |                          |       |            |
| <b>Total - Total - Total</b>  |                              |                  |   |                                 |  |                                   |   | <b>213</b>  |                                 |                             |   |                               | <b>82</b>                               | <b>21</b>                |       | <b>315</b> |
| Industry - Industrie - Industria  |                              |                  |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   | 10                       |       |            |
| Transport - Transport - Transporte  |                              |                  |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |       |            |
| Commerce - Commerce - Comercial   |                              |                  |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |       |            |
| Residential - Résidentiel - Residencial   |                              |                  |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |       |            |
| Other - Autres - Otros  |                              |                  |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   | 0                        |       |            |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                  |   |                                 |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                                 |                             |   |                               |   |                          |       |            |
| <b>Total - Total - Total</b>  |                              |                  | <b>0</b>  | <b>21</b>                       |  |                                   |   | <b>213</b>  |                                 |                             |   |                               | <b>82</b>                               |                          |       | <b>315</b> |
| Electricity - Électricité - Electrica   |                              |                  | 0   | 21                              |  |                                   |   |   |                                 |                             |   |                               |   |                          |       | 21         |
| Heat - Chaleur - Calor  |                              |                  |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |       |            |
| Direct use - Utilisation directe - Uso directo  |                              |                  |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   | 82                       |       | 295        |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                  |   |                                 |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                                 |                             |   |                               |   |                          |       |            |
| Electricity - Électricité - Electrica (in/en GWh)   |                              |                  | 0   | 6                               |  |                                   |   |   |                                 |                             |   |                               |   |                          |       | 6          |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                  |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |       |            |

## Tunisia

## Tunisia

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Édica | Solar - Solaire - Solar<br>Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                                 |                             | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Carbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total         |
|---|------------------------------|---------------------------|---|---------------------------------|--|-----------------------------------|---|---|---------------------------------|-----------------------------|--|------------------------------|---|--------------------------|---------------|
|   |                              |                           |   |                                 |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás |  |                              |   |                          |               |
| <b>Primary energy - Énergie primaire - Energía primaaria</b>  |                              |                           |   |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |               |
| Production - Production - Generación  | 54                           | 1159                      | 1 941   | 2 763                           |  |                                   |   | 45 917  |                                 |                             |  |                              | 401                                     |                          | 51 834        |
| Imports - Importations - Importaciones  |                              |                           |   |                                 |  |                                   |   |   |                                 |                             |  |                              | - 23                                    |                          | 401           |
| Exports - Exportations - Exportaciones  |                              |                           |   |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          | - 23          |
| Stock - Stocks - Inventario (+/-)   |                              |                           |   |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |               |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>54</b>                    | <b>1159</b>               | <b>1 941</b>  | <b>2 763</b>                    |  |                                   |   | <b>45 917</b>   |                                 |                             |  |                              | <b>379</b>                              |                          | <b>52 212</b> |
| <i>Differences - écarts - Diferencias</i>   |                              |                           |   |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |               |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                           |   |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |               |
| Electricity - Électricité - Electrica   | - 54                         | - 1159                    | - 1 941   |                                 |  |                                   |   |   |                                 |                             |  |                              | 3 154                                   |                          | - 0           |
| CHP - Cogénération - Cogeneración   |                              |                           |   |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |               |
| Heat - Chaleur - Calor  |                              |                           |   |                                 |  |                                   |   |   |                                 |                             |  |                              | 7 348                                   |                          | - 10 663      |
| Charcoal - Carbon - Carbón  |                              |                           |   |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |               |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                           |   |                                 |  |                                   |   |   |                                 |                             |  |                              | - 390                                   |                          | - 390         |
| Other - Autres - Otras  |                              |                           |   |                                 |  |                                   |   |   |                                 |                             |  |                              | - 536                                   |                          | - 536         |
| Own use - Consomm. propre - Uso propio  |                              |                           |   |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |               |
| Distribution - Distribution - Distribución  |                              |                           |   |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |               |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                           |   |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |               |
| Total - Total - Total   |                              |                           |   | 2 763                           |  |                                   |   | 27 906  |                                 |                             |  |                              | 7 348                                   | 2 607                    | 40 624        |
| Industry - Industrie - Industria  |                              |                           |   |                                 |  |                                   |   |   |                                 |                             |  |                              | 852                                     |                          | 852           |
| Transport - Transport - Transporte  |                              |                           |   |                                 |  |                                   |   |   |                                 |                             |  |                              | 10                                      |                          | 10            |
| Commerce - Commerce - Comercial   |                              |                           |   | 2 673                           |  |                                   |   |   |                                 |                             |  |                              | 94                                      | 686                      | 1 136         |
| Residential - Résidentiel - Residencial   |                              |                           |   |                                 |  |                                   |   |   |                                 |                             |  |                              | 7 254                                   | 864                      | 38 342        |
| Other - Autres - Otros  |                              |                           |   | 91                              |  |                                   |   |   |                                 |                             |  |                              | 193                                     |                          | 284           |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                           |   |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |               |
| Total - Total - Total   | 44                           | 958                       | 1 604   | 2 763                           |  |                                   |   | 27 906  |                                 |                             |  |                              | 7 348                                   |                          | 40 624        |
| Electricity - Électricité - Electrica   | 44                           | 958                       | 1 604   |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          | 2 607         |
| Heat - Chaleur - Calor  |                              |                           |   | 2 763                           |  |                                   |   | 27 906  |                                 |                             |  |                              |   |                          | 38 018        |
| Direct use - Utilisation directe - Uso directo  |                              |                           |   |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |               |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                           |   |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |               |
| Electricity - Électricité - Electrica (in/en GWh)   | 15                           | 322                       | 539   |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          | 876           |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                           |   |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |               |

| 2021 (In/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Édica | Solar - Solaire - Solar<br>Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                                 |                             | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Carbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total         |
|---|------------------------------|---------------------------|---|---------------------------------|--|-----------------------------------|---|---|---------------------------------|-----------------------------|--|------------------------------|---|--------------------------|---------------|
|   |                              |                           |   |                                 |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás |  |                              |   |                          |               |
| <b>Primary energy - Énergie primaire - Energía primaaria</b>  |                              |                           |   |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |               |
| Production - Production - Generación  | 102                          | 1 530                     | 1 728   | 2 763                           |  |                                   |   | 47 450  |                                 |                             |  |                              | 163                                     |                          | 53 573        |
| Imports - Importations - Importaciones  |                              |                           |   |                                 |  |                                   |   |   |                                 |                             |  |                              | - 9                                     |                          | 163           |
| Exports - Exportations - Exportaciones  |                              |                           |   |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          | - 9           |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>102</b>                   | <b>1 530</b>              | <b>1 728</b>  | <b>2 763</b>                    |  |                                   |   | <b>47 450</b>   |                                 |                             |  |                              | <b>153</b>                              |                          | <b>53 727</b> |
| <i>Differences - écarts - Diferencias</i>   |                              |                           |   |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |               |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                           |   |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |               |
| Electricity - Électricité - Electrica   | - 102                        | - 1 530                   | - 1 728   |                                 |  |                                   |   |   |                                 |                             |  |                              | 3 360                                   |                          | 0             |
| CHP - Cogénération - Cogeneración   |                              |                           |   |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |               |
| Heat - Chaleur - Calor  |                              |                           |   |                                 |  |                                   |   |   |                                 |                             |  |                              | 7 436                                   |                          | - 10 841      |
| Charcoal - Carbon - Carbón  |                              |                           |   |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |               |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                           |   |                                 |  |                                   |   |   |                                 |                             |  |                              | - 173                                   |                          | - 173         |
| Other - Autres - Otras  |                              |                           |   |                                 |  |                                   |   |   |                                 |                             |  |                              | - 558                                   |                          | - 558         |
| Own use - Consomm. propre - Uso propio  |                              |                           |   |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |               |
| Distribution - Distribution - Distribución  |                              |                           |   |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |               |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                           |   |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |               |
| Total - Total - Total   |                              |                           |   | 2 763                           |  |                                   |   | 29 173  |                                 |                             |  |                              | 7 436                                   | 2 782                    | 42 154        |
| Industry - Industrie - Industria  |                              |                           |   |                                 |  |                                   |   |   |                                 |                             |  |                              | 887                                     |                          | 887           |
| Transport - Transport - Transporte  |                              |                           |   |                                 |  |                                   |   |   |                                 |                             |  |                              | 11                                      |                          | 11            |
| Commerce - Commerce - Comercial   |                              |                           |   |                                 |  |                                   |   |   |                                 |                             |  |                              | 95                                      | 714                      | 1 182         |
| Residential - Résidentiel - Residencial   |                              |                           |   | 2 673                           |  |                                   |   |   |                                 |                             |  |                              | 7 341                                   | 900                      | 39 714        |
| Other - Autres - Otros  |                              |                           |   | 91                              |  |                                   |   |   |                                 |                             |  |                              | 270                                     |                          | 361           |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                           |   |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |               |
| Total - Total - Total   | 84                           | 1 267                     | 1 431   | 2 763                           |  |                                   |   | 29 173  |                                 |                             |  |                              | 7 436                                   |                          | 42 154        |
| Electricity - Électricité - Electrica   | 84                           | 1 267                     | 1 431   |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          | 2 782         |
| Heat - Chaleur - Calor  |                              |                           |   | 2 763                           |  |                                   |   | 29 173  |                                 |                             |  |                              | 7 436                                   |                          | 39 372        |
| Direct use - Utilisation directe - Uso directo  |                              |                           |   |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |               |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                           |   |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |               |
| Electricity - Électricité - Electrica (in/en GWh)   | 28                           | 425                       | 480   |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          | 933           |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                           |   |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |               |

# Türkiye

# Türkiye

| 2022 (In/en TJ)   | Hydro/Marine<br>Hydro/Marina                                 | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                        |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primariares -<br>Biocombustibles primarios |                                 |                             | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica                    | Heat<br>Chaleur<br>Calor | Total   |
|---|--|----------------------------|--|---------------------------------|--|-----------------------------------|---|---|---------------------------------|-----------------------------|--|-------------------------------|--|--------------------------|---|
|   |  |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás |  |                               |  |                          |   |
|   | <b>Primary energy - Énergie primaire - Energía primaaria</b> |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  |                          |   |
| Production - Production - Generación  | 240 489  | 125 804                    | 60 795   | 36 367                          | 482 078                                  |                                   | 9 019                                       | 108 132   | 6 572                           | 41 908                      |  |                               | 9 729<br>- 5 610   |                          | 111 164<br>9 729<br>- 5 610                                 |
| Imports - Importations - Importaciones  |  |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  |                          |   |
| Exports - Exportations - Exportaciones  |  |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  |                          |   |
| Stock - Stocks - Inventario (+/-)   |  |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  |                          |   |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>240 489</b>   | <b>125 804</b>             | <b>60 795</b>                                  | <b>36 367</b>                   | <b>482 078</b>                           |                                   | <b>9 019</b>                                | <b>108 132</b>  | <b>6 572</b>                    | <b>41 908</b>               |  |                               | <b>4 119</b>   |                          | <b>111 283</b>  |
| Differences - Ecarts - Diferencias  |  |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  |                          |   |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |  |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  |                          |   |
| Electricity - Électricité - Electrica   | - 240 489  | - 125 804                  | - 60 795                                       |                                 | - 400 259                                |                                   | - 9 019                                     | - 35 774<br>- 3 582   | - 509                           | - 32 341<br>- 9 567         |  |                               | 492 415<br>3 775   | 6 606                    | - 412 575<br>- 2 768  |
| CHP - Cogénération - Cogeneración   |  |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  |                          |   |
| Heat - Chaleur - Calor  |  |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  |                          |   |
| Charcoal - Charbon - Carbón   |  |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  |                          |   |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |  |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  |                          |   |
| Other - Autres - Otras  |  |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  |                          |   |
| Own use - Consomm. propre - Uso propio  |  |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  |                          |   |
| Distribution - Distribution - Distribución  |  |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  |                          |   |
| <b>Final consumption - Consommation finale - Consumo final</b>  |  |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  |                          |   |
| Total - Total - Total   |  |                            |  |                                 | 36 367<br>3 548                          | 81 819                            |   | 68 776  | 6 063                           |                             |  |                               | 426 533<br>194 983<br>2 704<br>115 306<br>93 245<br>20 294 | 4 309<br>4 309           | 623 867<br>202 841<br>8 767<br>115 306<br>250 416<br>46 538 |
| Industry - Industrie - Industria  |  |                            |  |                                 | 32 818                                   | 55 576                            |   | 68 776  | 6 063                           |                             |  |                               |  |                          |   |
| Transport - Transport - Transporte  |  |                            |  |                                 | 1  | 26 243                            |   |   |                                 |                             |  |                               |  |                          |   |
| Commerce - Commerce - Comercial   |  |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  |                          |   |
| Residential - Résidentiel - Residencial   |  |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  |                          |   |
| Other - Autres - Otros  |  |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  |                          |   |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |  |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  |                          |   |
| Total - Total - Total   | 206 728  | 108 143                    | 52 261   | 36 376                          | 116 228                                  |                                   | 2 253                                       | 78 769  | 6 203                           | 16 906                      |  |                               |  |                          | 623 867   |
| Electricity - Électricité - Electrica   | 206 728  | 108 143                    | 52 261   | 9                               | 34 408                                   |                                   | 2 253                                       | 8 347   | 140                             | 14 243                      |  |                               |  |                          | 426 533   |
| Heat - Chaleur - Calor  |  |                            |  |                                 | 36 367                                   | 81 819                            |   | 68 776  | 6 063                           | 2 663                       |  |                               |  |                          | 4 309   |
| Direct use - Utilisation directe - Uso directo  |  |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  |                          | 193 025   |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |  |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  |                          |   |
| Electricity - Électricité - Electrica (in/en GWh)   | 66 802   | 34 945                     | 16 888   | 3                               | 11 119                                   |                                   | 728   | 2 697<br>2 524  | 45                              | 4 602                       |  |                               |  |                          | 137 830   |
| Heat - Chaleur - Calor (in/en TJ)   |  |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  |                          | 6 606   |
| 2021 (In/en TJ)   | Hydro/Marine<br>Hydro/Marina                                 | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                        |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primariares -<br>Biocombustibles primarios |                                 |                             | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica                    | Heat<br>Chaleur<br>Calor | Total   |
|   |  |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás |  |                               |  |                          |   |
|   | <b>Primary energy - Énergie primaire - Energía primaaria</b> |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  |                          |   |
| Production - Production - Generación  | 201 337  | 113 172                    | 50 194   | 36 006                          | 470 358                                  |                                   | 469   | 95 562  | 5 583                           | 37 659                      |  |                               | 2 977<br>- 5 338   |                          | 1 010 340<br>2 977<br>- 5 338                               |
| Imports - Importations - Importaciones  |  |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  |                          |   |
| Exports - Exportations - Exportaciones  |  |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  |                          |   |
| Stock - Stocks - Inventario (+/-)   |  |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  |                          |   |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>201 337</b>   | <b>113 172</b>             | <b>50 194</b>                                  | <b>36 006</b>                   | <b>470 358</b>                           |                                   | <b>469</b>                                  | <b>95 562</b>   | <b>5 583</b>                    | <b>37 659</b>               |  |                               | <b>- 2 361</b>   |                          | <b>1 007 979</b>  |
| Differences - Ecarts - Diferencias  |  |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  |                          |   |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |  |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  |                          |   |
| Electricity - Électricité - Electrica   | - 201 337  | - 113 172                  | - 50 194                                       |                                 | - 388 539                                |                                   | - 469                                       | - 29 530<br>- 2 045   | - 560                           | - 26 712<br>- 10 946        |  |                               | 422 543<br>4 257   | 5 979                    | - 387 971<br>- 2 755  |
| CHP - Cogénération - Cogeneración   |  |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  |                          |   |
| Heat - Chaleur - Calor  |  |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  |                          |   |
| Charcoal - Charbon - Carbón   |  |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  |                          |   |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |  |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  |                          |   |
| Other - Autres - Otras  |  |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  |                          |   |
| Own use - Consomm. propre - Uso propio  |  |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  |                          |   |
| Distribution - Distribution - Distribución  |  |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  |                          |   |
| <b>Final consumption - Consommation finale - Consumo final</b>  |  |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  |                          |   |
| Total - Total - Total   |  |                            |  |                                 | 36 006<br>12 602                         | 81 819                            |   | 63 987  | 5 023                           |                             |  |                               | 360 322<br>169 947<br>2 003<br>92 392<br>78 416<br>17 564  | 4 002<br>4 002           | 551 160<br>186 552<br>7 026<br>92 392<br>221 383<br>43 807  |
| Industry - Industrie - Industria  |  |                            |  |                                 | 23 404                                   | 55 576                            |   | 63 987  | 5 023                           |                             |  |                               |  |                          |   |
| Transport - Transport - Transporte  |  |                            |  |                                 | 26 243                                   | 26 243                            |   |   |                                 |                             |  |                               |  |                          |   |
| Commerce - Commerce - Comercial   |  |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  |                          |   |
| Residential - Résidentiel - Residencial   |  |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  |                          |   |
| Other - Autres - Otros  |  |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  |                          |   |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |  |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  |                          |   |
| Total - Total - Total   | 169 977  | 95 545                     | 42 376   | 36 016                          | 114 623                                  |                                   | 864   | 71 083  | 5 193                           | 15 483                      |  |                               |  |                          | 551 160   |
| Electricity - Électricité - Electrica   | 169 977  | 95 545                     | 42 376   | 9                               | 32 804                                   |                                   | 864   | 6 169<br>927  | 171                             | 12 407<br>3 075             |  |                               |  |                          | 360 322   |
| Heat - Chaleur - Calor  |  |                            |  |                                 | 36 006                                   | 81 819                            |   | 63 987  | 5 023                           |                             |  |                               |  |                          | 4 002   |
| Direct use - Utilisation directe - Uso directo  |  |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  |                          | 186 835   |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |  |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  |                          |   |
| Electricity - Électricité - Electrica (in/en GWh)   | 55 927   | 31 437                     | 13 943   | 3                               | 10 793                                   |                                   | 284   | 2 030<br>1 385  | 56                              | 4 082<br>4 594              |  |                               |  |                          | 118 555<br>5 979  |
| Heat - Chaleur - Calor (in/en TJ)   |  |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |  |                          |   |

## Uganda

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                        | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                                 |                                 | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Carbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total          |                             |
|---|------------------------------|----------------------------|--|--|-----------------------------------|---|---|---------------------------------|---------------------------------|--|------------------------------|---|--------------------------|----------------|-----------------------------|
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás     |  |                              |   |                          |                |                             |
|   |                              |                            |  |  |                                   |   |   |                                 |                                 |  |                              |   |                          |                |                             |
| <b>Primary energy - Énergie primaire - Energía primaria</b>   |                              |                            |  |  |                                   |   |   |                                 |                                 |  |                              |   |                          |                |                             |
| Production - Production - Generación  | 17 453                       |                            | 492  |  |                                   |   | 528 732   |                                 | 105                             |  | - 0                          | 101                                     |                          | 546 782        |                             |
| Imports - Importations - Importaciones  |                              |                            |  |  |                                   |   |   |                                 |                                 |  | - 2 038                      |   |                          | 101            |                             |
| Exports - Exportations - Exportaciones  |                              |                            |  |  |                                   |   |   |                                 |                                 |  |                              |   |                          | - 2 038        |                             |
| Stock - Stocks - Inventario (+/-)   |                              |                            |  |  |                                   |   |   |                                 |                                 |  |                              |   |                          |                |                             |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>17 453</b>                |                            | <b>492</b>                                     |  |                                   |   | <b>528 732</b>  |                                 | <b>105</b>                      |  | <b>- 0</b>                   | <b>- 1937</b>                           |                          | <b>544 845</b> |                             |
| Differences - Ecarts - Diferencias  |                              |                            |  |  |                                   |   |   |                                 |                                 |  | 3 139                        |   |                          | 3 139          |                             |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |  |                                   |   |   |                                 |                                 |  |                              |   |                          |                |                             |
| Electricity - Électricité - Electrica   | - 17 453                     |                            | - 492  |  |                                   |   | - 1694  |                                 | - 0                             |  |                              | 17 945                                  |                          | - 0            |                             |
| CHP - Cogénération - Cogeneración   |                              |                            |  |  |                                   |   |   |                                 |                                 |  |                              | 1694                                    |                          |                |                             |
| Heat - Chaleur - Calor  |                              |                            |  |  |                                   |   | - 85 914  |                                 |                                 |  |                              | 38 891                                  |                          | - 47 023       |                             |
| Charcoal - Charbon - Carbón   |                              |                            |  |  |                                   |   |   |                                 |                                 |  |                              |   |                          |                |                             |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |  |  |                                   |   |   |                                 |                                 |  |                              |   |                          |                |                             |
| Other - Autres - Otras  |                              |                            |  |  |                                   |   |   |                                 |                                 |  |                              |   |                          |                |                             |
| Own use - Consomm. propre - Uso propio  |                              |                            |  |  |                                   |   |   |                                 |                                 |  |                              |   |                          |                |                             |
| Distribution - Distribution - Distribución  |                              |                            |  |  |                                   |   |   |                                 |                                 |  |                              |   |                          |                |                             |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |  |                                   |   |   |                                 |                                 |  |                              |   |                          |                |                             |
| Total - Total - Total   |                              |                            |  |  |                                   |   | 441 125   |                                 | 105                             |  | 38 891                       | 19 885                                  |                          | 500 006        |                             |
| Industry - Industrie - Industria  |                              |                            |  |  |                                   |   | 69 366  |                                 | 0                               |  | 5 695                        | 13 428                                  |                          | 88 489         |                             |
| Transport - Transport - Transporte  |                              |                            |  |  |                                   |   |   |                                 |                                 |  |                              |   |                          |                |                             |
| Commerce - Commerce - Comercial   |                              |                            |  |  |                                   |   | 93 252  |                                 |                                 |  | 5 430                        | 2 193                                   |                          | 100 874        |                             |
| Residential - Résidentiel - Residencial   |                              |                            |  |  |                                   |   | 278 507   |                                 | 105                             |  | 27 766                       | 4 265                                   |                          | 310 642        |                             |
| Other - Autres - Otros  |                              |                            |  |  |                                   |   |   |                                 |                                 |  |                              |   |                          |                |                             |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |  |                                   |   |   |                                 |                                 |  |                              |   |                          |                |                             |
| Total - Total - Total   | 17 672                       |                            | 498  |  |                                   |   | 442 840   |                                 | 105                             |  | 38 891                       |   |                          | 500 006        |                             |
| Electricity - Électricité - Electrica   |                              |                            | 498  |  |                                   |   | 1715  |                                 |                                 |  |                              |   |                          | 19 885         |                             |
| Heat - Chaleur - Calor  |                              |                            |  |  |                                   |   | 441 125   |                                 | 105                             |  | 38 891                       |   |                          | 480 120        |                             |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |  |                                   |   |   |                                 |                                 |  |                              |   |                          |                |                             |
| Electricity - Électricité - Electrica (in/en GWh)   | 4 848                        |                            | 137  |  |                                   |   | 471   |                                 |                                 |  |                              |   |                          | 5 455          |                             |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |  |  |                                   |   |   |                                 |                                 |  |                              |   |                          |                |                             |
| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                        | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                                 |                                 | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Carbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total          |                             |
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica |  |                                   |   | Thermal<br>Thermique<br>Térmica   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos |  |                              |   |                          |                | Biogas - Biogaz<br>- Biogás |
|   |                              |                            |  |  |                                   |   |   |                                 |                                 |  |                              |   |                          |                |                             |
| <b>Primary energy - Énergie primaire - Energía primaria</b>   |                              |                            |  |  |                                   |   |   |                                 |                                 |  |                              |   |                          |                |                             |
| Production - Production - Generación  | 15 405                       |                            | 505  |  |                                   |   | 523 596   |                                 | 111                             |  | 1                            | 84                                      |                          | 539 617        |                             |
| Imports - Importations - Importaciones  |                              |                            |  |  |                                   |   |   |                                 |                                 |  | - 1                          | - 1 383                                 |                          | 85             |                             |
| Exports - Exportations - Exportaciones  |                              |                            |  |  |                                   |   |   |                                 |                                 |  |                              |   |                          | - 1 384        |                             |
| Stock - Stocks - Inventario (+/-)   |                              |                            |  |  |                                   |   |   |                                 |                                 |  |                              |   |                          |                |                             |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>15 405</b>                |                            | <b>505</b>                                     |  |                                   |   | <b>523 596</b>  |                                 | <b>111</b>                      |  | <b>- 0</b>                   | <b>- 1 299</b>                          |                          | <b>538 318</b> |                             |
| Differences - Ecarts - Diferencias  |                              |                            |  |  |                                   |   |   |                                 |                                 |  | - 202                        |   |                          | - 202          |                             |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |  |                                   |   |   |                                 |                                 |  |                              |   |                          |                |                             |
| Electricity - Électricité - Electrica   | - 15 405                     |                            | - 505  |  |                                   |   | - 1 346   |                                 | - 0                             |  |                              | 15 910                                  |                          | - 0            |                             |
| CHP - Cogénération - Cogeneración   |                              |                            |  |  |                                   |   |   |                                 |                                 |  |                              | 1 346                                   |                          |                |                             |
| Heat - Chaleur - Calor  |                              |                            |  |  |                                   |   | - 83 829  |                                 |                                 |  | 37 947                       |   |                          | - 45 882       |                             |
| Charcoal - Charbon - Carbón   |                              |                            |  |  |                                   |   |   |                                 |                                 |  |                              |   |                          |                |                             |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |  |  |                                   |   |   |                                 |                                 |  |                              |   |                          |                |                             |
| Other - Autres - Otras  |                              |                            |  |  |                                   |   |   |                                 |                                 |  |                              |   |                          |                |                             |
| Own use - Consomm. propre - Uso propio  |                              |                            |  |  |                                   |   |   |                                 |                                 |  |                              |   |                          |                |                             |
| Distribution - Distribution - Distribución  |                              |                            |  |  |                                   |   |   |                                 |                                 |  |                              |   |                          |                |                             |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |  |                                   |   |   |                                 |                                 |  |                              |   |                          |                |                             |
| Total - Total - Total   |                              |                            |  |  |                                   |   | 438 421   |                                 | 110                             |  | 37 947                       | 15 272                                  |                          | 491 751        |                             |
| Industry - Industrie - Industria  |                              |                            |  |  |                                   |   | 61 694  |                                 | 0                               |  | 10 332                       |   |                          | 72 026         |                             |
| Transport - Transport - Transporte  |                              |                            |  |  |                                   |   |   |                                 |                                 |  |                              |   |                          |                |                             |
| Commerce - Commerce - Comercial   |                              |                            |  |  |                                   |   | 27 590  |                                 |                                 |  | 1 922                        | 1 610                                   |                          | 31 122         |                             |
| Residential - Résidentiel - Residencial   |                              |                            |  |  |                                   |   | 274 438   |                                 | 110                             |  | 36 024                       | 3 330                                   |                          | 313 902        |                             |
| Other - Autres - Otros  |                              |                            |  |  |                                   |   | 74 700  |                                 |                                 |  |                              |   |                          | 74 700         |                             |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |  |                                   |   |   |                                 |                                 |  |                              |   |                          |                |                             |
| Total - Total - Total   | 13 634                       |                            | 447  |  |                                   |   | 439 612   |                                 | 110                             |  | 37 947                       |   |                          | 491 751        |                             |
| Electricity - Électricité - Electrica   |                              |                            | 447  |  |                                   |   | 1191  |                                 |                                 |  |                              |   |                          | 15 272         |                             |
| Heat - Chaleur - Calor  |                              |                            |  |  |                                   |   |   |                                 |                                 |  | 37 947                       |   |                          |                |                             |
| Direct use - Utilisation directe - Uso directo  |                              |                            |  |  |                                   |   |   |                                 |                                 |  |                              |   |                          | 476 478        |                             |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |  |                                   |   |   |                                 |                                 |  |                              |   |                          |                |                             |
| Electricity - Électricité - Electrica (in/en GWh)   | 4 279                        |                            | 140  |  |                                   |   | 374   |                                 |                                 |  |                              |   |                          | 4 793          |                             |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |  |  |                                   |   |   |                                 |                                 |  |                              |   |                          |                |                             |

## United Arab Emirates

## United Arab Emirates

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Édica | Solar - Solaire - Solar                        |                                 |                               | Geothermal<br>Géothermique | Other RE<br>Autres ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                             |           | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Carbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total         |
|---|------------------------------|---------------------------|--|---------------------------------|-------------------------------|----------------------------|-----------------------|---|---|-----------------------------|-----------|--|------------------------------|---|--------------------------|---------------|
|   |                              |                           | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |                            |                       |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás |           |  |                              |   |                          |               |
| <b>Primary energy - Énergie primaire - Energía primaaria</b>  |                              |                           |  |                                 |                               |                            |                       |   |   |                             |           |  |                              |   |                          |               |
| Production - Production - Generación  | 0                            |                           | 26 839   | 3 219                           |                               |                            |                       |   | 175   |                             | 4         |  | 3 168                        | 90                                      |                          | 30 063        |
| Imports - Importations - Importaciones  |                              |                           |  |                                 |                               |                            |                       |   | - 19  |                             |           |  | - 825                        | - 110                                   |                          | 3 434         |
| Exports - Exportations - Exportaciones  |                              |                           |  |                                 |                               |                            |                       |   |   |                             |           |  |                              |   |                          | - 953         |
| Stock - Stocks - Inventario (+/-)   |                              |                           |  |                                 |                               |                            |                       |   |   |                             |           |  |                              |   |                          |               |
| <b>Supply - Approvisionnement - Oferta</b>  |                              |                           | <b>0</b>                                       | <b>26 839</b>                   | <b>3 219</b>                  |                            |                       |   | <b>157</b>  |                             | <b>4</b>  |  | <b>2 343</b>                 | <b>- 20</b>                             |                          | <b>32 543</b> |
| <i>Differences - Ecarts - Diferencias</i>   |                              |                           |  |                                 |                               |                            |                       |   |   |                             |           |  |                              |   |                          |               |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                           |  |                                 |                               |                            |                       |   |   |                             |           |  |                              |   |                          |               |
| Electricity - Électricité - Electrica   |                              |                           | - 0  | - 26 839                        | - 3 219                       |                            |                       |   |   |                             | - 4       |  |                              | 27 958                                  |                          | - 2 104       |
| CHP - Cogénération - Cogeneración   |                              |                           |  |                                 |                               |                            |                       |   |   |                             |           |  |                              |   |                          |               |
| Heat - Chaleur - Calor  |                              |                           |  |                                 |                               |                            |                       |   |   |                             |           |  |                              |   |                          |               |
| Charcoal - Carbon - Carbón  |                              |                           |  |                                 |                               |                            |                       |   |   |                             |           |  |                              |   |                          |               |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                           |  |                                 |                               |                            |                       |   |   |                             |           |  |                              |   |                          |               |
| Other - Autres - Otras  |                              |                           |  |                                 |                               |                            |                       |   |   |                             |           |  |                              |   |                          |               |
| Own use - Consomm. propre - Uso propio  |                              |                           |  |                                 |                               |                            |                       |   |   |                             |           |  |                              |   |                          |               |
| Distribution - Distribution - Distribución  |                              |                           |  |                                 |                               |                            |                       |   |   |                             |           |  |                              |   |                          |               |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                           |  |                                 |                               |                            |                       |   |   |                             |           |  |                              |   |                          |               |
| <b>Total - Total - Total</b>  |                              |                           |  |                                 |                               |                            |                       |   | <b>157</b>  |                             |           |  | <b>2 343</b>                 | <b>24 104</b>                           |                          | <b>26 603</b> |
| Industry - Industrie - Industria  |                              |                           |  |                                 |                               |                            |                       |   |   |                             |           |  | 469                          | 4 142                                   |                          | 4 611         |
| Transport - Transport - Transporte  |                              |                           |  |                                 |                               |                            |                       |   |   |                             |           |  | 937                          | 11 559                                  |                          | 12 574        |
| Commerce - Commerce - Comercial   |                              |                           |  |                                 |                               |                            |                       |   |   |                             |           |  | 937                          | 7 436                                   |                          | 8 451         |
| Residential - Résidentiel - Residencial   |                              |                           |  |                                 |                               |                            |                       |   |   |                             |           |  | 967                          |   |                          | 967           |
| Other - Autres - Otros  |                              |                           |  |                                 |                               |                            |                       |   |   |                             |           |  |                              |   |                          |               |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                           |  |                                 |                               |                            |                       |   |   |                             |           |  |                              |   |                          |               |
| <b>Total - Total - Total</b>  |                              |                           | <b>0</b>                                       | <b>23 139</b>                   | <b>925</b>                    |                            |                       |   | <b>157</b>  |                             | <b>40</b> |  | <b>2 343</b>                 |   |                          | <b>26 603</b> |
| Electricity - Électricité - Electrica   |                              |                           | 0  | 23 139                          | 925                           |                            |                       |   |   |                             | 40        |  |                              |   |                          | 24 104        |
| Heat - Chaleur - Calor  |                              |                           |  |                                 |                               |                            |                       |   |   |                             |           |  |                              |   |                          |               |
| Direct use - Utilisation directe - Uso directo  |                              |                           |  |                                 |                               |                            |                       |   | <b>157</b>  |                             |           |  | <b>2 343</b>                 |   |                          | <b>2 500</b>  |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                           |  |                                 |                               |                            |                       |   |   |                             |           |  |                              |   |                          |               |
| Electricity - Électricité - Electrica (in/en GWh)   |                              |                           | 0  | 7 455                           | 298                           |                            |                       |   |   |                             |           |  | 13                           |   |                          | 7 766         |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                           |  |                                 |                               |                            |                       |   |   |                             |           |  |                              |   |                          |               |

| 2021 (In/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Édica | Solar - Solaire - Solar                        |                                 |                               | Geothermal<br>Géothermique | Other RE<br>Autres ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                             |          | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Carbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total         |
|---|------------------------------|---------------------------|--|---------------------------------|-------------------------------|----------------------------|-----------------------|---|---|-----------------------------|----------|--|------------------------------|---|--------------------------|---------------|
|   |                              |                           | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |                            |                       |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás |          |  |                              |   |                          |               |
| <b>Primary energy - Énergie primaire - Energía primaaria</b>  |                              |                           |  |                                 |                               |                            |                       |   |   |                             |          |  |                              |   |                          |               |
| Production - Production - Generación  | 0                            |                           | 21 569   | 2 916                           |                               |                            |                       |   | 141   |                             | 4        |  | 2 360                        | 131                                     |                          | 24 489        |
| Imports - Importations - Importaciones  |                              |                           |  |                                 |                               |                            |                       |   | - 9   |                             |          |  | - 525                        | - 99                                    |                          | 2 632         |
| Exports - Exportations - Exportaciones  |                              |                           |  |                                 |                               |                            |                       |   |   |                             |          |  |                              |   |                          | - 633         |
| Stock - Stocks - Inventario (+/-)   |                              |                           |  |                                 |                               |                            |                       |   |   |                             |          |  |                              |   |                          |               |
| <b>Supply - Approvisionnement - Oferta</b>  |                              |                           | <b>0</b>                                       | <b>21 569</b>                   | <b>2 916</b>                  |                            |                       |   | <b>132</b>  |                             | <b>4</b> |  | <b>1 836</b>                 | <b>32</b>                               |                          | <b>26 488</b> |
| <i>Differences - Ecarts - Diferencias</i>   |                              |                           |  |                                 |                               |                            |                       |   |   |                             |          |  |                              |   |                          |               |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                           |  |                                 |                               |                            |                       |   |   |                             |          |  |                              |   |                          |               |
| Electricity - Électricité - Electrica   |                              |                           | - 0  | - 21 569                        | - 2 916                       |                            |                       |   |   |                             | - 4      |  |                              | 22 542                                  |                          | - 1 947       |
| CHP - Cogénération - Cogeneración   |                              |                           |  |                                 |                               |                            |                       |   |   |                             |          |  |                              |   |                          |               |
| Heat - Chaleur - Calor  |                              |                           |  |                                 |                               |                            |                       |   |   |                             |          |  |                              |   |                          |               |
| Charcoal - Carbon - Carbón  |                              |                           |  |                                 |                               |                            |                       |   |   |                             |          |  |                              |   |                          |               |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                           |  |                                 |                               |                            |                       |   |   |                             |          |  |                              |   |                          |               |
| Other - Autres - Otras  |                              |                           |  |                                 |                               |                            |                       |   |   |                             |          |  |                              |   |                          |               |
| Own use - Consomm. propre - Uso propio  |                              |                           |  |                                 |                               |                            |                       |   |   |                             |          |  |                              |   |                          |               |
| Distribution - Distribution - Distribución  |                              |                           |  |                                 |                               |                            |                       |   |   |                             |          |  |                              |   |                          |               |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                           |  |                                 |                               |                            |                       |   |   |                             |          |  |                              |   |                          |               |
| <b>Total - Total - Total</b>  |                              |                           |  |                                 |                               |                            |                       |   | <b>132</b>  |                             |          |  | <b>1 836</b>                 | <b>19 449</b>                           |                          | <b>21 416</b> |
| Industry - Industrie - Industria  |                              |                           |  |                                 |                               |                            |                       |   |   |                             |          |  | 367                          | 3 066                                   |                          | 3 433         |
| Transport - Transport - Transporte  |                              |                           |  |                                 |                               |                            |                       |   |   |                             |          |  | 734                          | 9 269                                   |                          | 10 069        |
| Commerce - Commerce - Comercial   |                              |                           |  |                                 |                               |                            |                       |   |   |                             |          |  | 734                          | 6 472                                   |                          | 7 272         |
| Residential - Résidentiel - Residencial   |                              |                           |  |                                 |                               |                            |                       |   |   |                             |          |  | 642                          |   |                          | 642           |
| Other - Autres - Otros  |                              |                           |  |                                 |                               |                            |                       |   |   |                             |          |  |                              |   |                          |               |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                           |  |                                 |                               |                            |                       |   |   |                             |          |  |                              |   |                          |               |
| <b>Total - Total - Total</b>  |                              |                           | <b>0</b>                                       | <b>18 609</b>                   | <b>839</b>                    |                            |                       |   | <b>132</b>  |                             | <b>1</b> |  | <b>1 836</b>                 |   |                          | <b>21 416</b> |
| Electricity - Électricité - Electrica   |                              |                           | 0  | 18 609                          | 839                           |                            |                       |   |   |                             | 1        |  |                              |   |                          | 19 449        |
| Heat - Chaleur - Calor  |                              |                           |  |                                 |                               |                            |                       |   |   |                             |          |  |                              |   |                          |               |
| Direct use - Utilisation directe - Uso directo  |                              |                           |  |                                 |                               |                            |                       |   | <b>132</b>  |                             |          |  | <b>1 836</b>                 |   |                          | <b>1 967</b>  |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                           |  |                                 |                               |                            |                       |   |   |                             |          |  |                              |   |                          |               |
| Electricity - Électricité - Electrica (in/en GWh)   |                              |                           | 0  | 5 991                           | 270                           |                            |                       |   |   |                             |          |  | 0                            |   |                          | 6 262         |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                           |  |                                 |                               |                            |                       |   |   |                             |          |  |                              |   |                          |               |

## United Kingdom

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                              |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primaires -<br>Biocombustibles primarios   |   |                            | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Electricidad | Heat<br>Chaleur<br>Calor | Total  |                            |
|---|------------------------------|----------------------------|--|---------------------------------|-------------------------------|--|-----------------------------------|---|---|---|----------------------------|--|-------------------------------|--|--------------------------|--|----------------------------|
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica       | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás                         |                            |  |                               |  |                          |  |                            |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaria |                                 |                               |  |                                   |   | Primary energy - Énergie primaire - Energía primaria  |   |                            |  |                               |  |                          |  |                            |
| Production - Production - Generación  | 19 454                       | 232 787                    | 43 472   | 1 512                           | 34                            |  |                                   | 52 336                                      | 180 696<br>150 168<br>- 1 763   | 25 630<br>59 485<br>- 14 605<br>- 63                | 101 778<br>154 446<br>- 28 |  | 2 942<br>- 96                 | 41 136<br>- 5 962                          |                          | 657 699<br>408 776<br>- 22 453<br>- 63           |                            |
| Imports - Importations - Importaciones  |                              |                            |  |                                 |                               |  |                                   |   |   |   |                            |  |                               |  |                          |  |                            |
| Exports - Exportations - Exportaciones  |                              |                            |  |                                 |                               |  |                                   |   |   |   |                            |  |                               |  |                          |  |                            |
| Stock - Stocks - Inventario (+/-)   |                              |                            |  |                                 |                               |  |                                   |   |   |   |                            |  |                               |  |                          |  |                            |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>19 454</b>                | <b>232 787</b>             | <b>43 472</b>  | <b>1 512</b>                    | <b>34</b>                     |  |                                   | <b>52 336</b>                               | <b>329 101<br/>340</b>  | <b>70 447</b>                                       | <b>101 778<br/>0</b>       | <b>154 418</b>                                   | <b>2 845</b>                  | <b>35 174<br/>- 1 937</b>                  |                          | <b>1 043 359<br/>- 1 590</b>                     |                            |
| Differences - Écart - Diferencias   |                              |                            |  |                                 |                               |  |                                   |   |   |   |                            |  |                               |  |                          |  |                            |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |                                 |                               |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |   |                            |  |                               |  |                          |  |                            |
| Electricity - Électricité - Electrica   | - 19 454                     | - 232 787                  | - 43 472   |                                 |                               |  |                                   |   | - 45 743  | - 211 545<br>- 9 846<br>- 6 106<br>- 340<br>- 5 151 | - 112<br>- 1 004           | - 50 998<br>- 18 694                             |                               | 426 210<br>14 208                          |                          | - 177 901<br>- 17 781<br>- 2 291<br>- 186<br>- 0 |                            |
| CHP - Cogénération - Cogeneración   |                              |                            |  |                                 |                               |  |                                   |   |   |   |                            |  |                               |  |                          |  |                            |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |                               |  |                                   |   |   |   |                            |  |                               |  |                          |  |                            |
| Charcoal - Charbon - Carbón   |                              |                            |  |                                 |                               |  |                                   |   |   |   |                            |  |                               |  |                          |  |                            |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |  |                                 |                               |  |                                   |   |   |   |                            |  |                               |  |                          |  |                            |
| Other - Autres - Otras  |                              |                            |  |                                 |                               |  |                                   |   |   |   |                            |  |                               |  |                          |  |                            |
| Own use - Consomm. propre - Uso propio  |                              |                            |  |                                 |                               |  |                                   |   |   |   |                            |  |                               |  |                          |  |                            |
| Distribution - Distribution - Distribución  |                              |                            |  |                                 |                               |  |                                   |   |   |   |                            |  |                               |  |                          |  |                            |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |                                 |                               |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |   |                            |  |                               |  |                          |  |                            |
| <b>Total - Total - Total</b>  |                              |                            |  | <b>1 512</b>                    | <b>34</b>                     |  |                                   | <b>3 371</b>                                | <b>96 453<br/>2 164</b>   | <b>69 331<br/>50 414</b>                            | <b>10 977<br/>3 050</b>    | <b>159 569</b>                                   | <b>2 999</b>                  | <b>410 324<br/>125 447</b>                 | <b>3 633</b>             | <b>758 204<br/>189 595</b>                       |                            |
| Industry - Industrie - Industria  |                              |                            |  |                                 |                               |  |                                   |   |   |   |                            |  |                               |  |                          |  |                            |
| Transport - Transport - Transporte  |                              |                            |  |                                 |                               |  |                                   |   |   |   |                            |  |                               |  |                          |  |                            |
| Commerce - Commerce - Comercial   |                              |                            |  |                                 |                               |  |                                   |   |   |   |                            |  |                               |  |                          |  |                            |
| Residential - Résidentiel - Residencial   |                              |                            |  |                                 |                               |  |                                   |   |   |   |                            |  |                               |  |                          |  |                            |
| Other - Autres - Otros  |                              |                            |  |                                 |                               |  |                                   |   |   |   |                            |  |                               |  |                          |  |                            |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |                                 |                               |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |   |                            |  |                               |  |                          |  |                            |
| <b>Total - Total - Total</b>  | <b>18 125</b>                | <b>216 881</b>             | <b>40 501</b>  | <b>1 512</b>                    | <b>34</b>                     |  |                                   | <b>19 071</b>                               | <b>193 090</b>  | <b>69 830</b>                                       | <b>36 591</b>              | <b>159 569</b>                                   | <b>2 999</b>                  |  |                          | <b>758 204<br/>410 324</b>                       |                            |
| Electricity - Électricité - Electrica   | 18 125                       | 216 881                    | 40 501   |                                 |                               |  |                                   | 15 290                                      | 93 414  | 499   | 25 614                     |  |                               |  |                          |  | 3 633                      |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |                               |  |                                   | 410   | 3 223   |   |                            |  |                               |  |                          |  | 344 247                    |
| Direct use - Utilisation directe - Uso directo  |                              |                            |  |                                 |                               |  |                                   | 3 371                                       | 96 453  | 69 331  | 10 977                     | 159 569  | 2 999                         |  |                          |  |                            |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |                                 |                               |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |   |                            |  |                               |  |                          |  |                            |
| Electricity - Électricité - Electrica (in/en GWh)   | 5 404                        | 64 663                     | 12 075   |                                 |                               |  |                                   | 4 559                                       | 27 851<br>518   | 149<br>4 074  | 7 637                      |  |                               |  |                          |  | 122 338<br>4 592           |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |  |                                 |                               |  |                                   |   |   |   |                            |  |                               |  |                          |  |                            |
| 2020 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                              |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primaires -<br>Biocombustibles primarios   |   |                            | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Electricidad | Heat<br>Chaleur<br>Calor | Total  |                            |
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica       | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás                         |                            |  |                               |  |                          |  |                            |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaria |                                 |                               |  |                                   |   | Primary energy - Énergie primaire - Energía primaria  |   |                            |  |                               |  |                          |  |                            |
| Production - Production - Generación  | 24 768                       | 271 368                    | 45 014   | 1 497                           | 34                            |  |                                   | 49 284                                      | 165 644<br>148 049<br>- 1 400   | 25 432<br>67 095<br>- 17 309<br>- 478               | 97 840                     | 153 594<br>- 66                                  | 3 030<br>- 91                 | 34 906<br>- 6 985                          |                          | 680 881<br>406 674<br>- 25 851<br>- 478          |                            |
| Imports - Importations - Importaciones  |                              |                            |  |                                 |                               |  |                                   |   |   |   |                            |  |                               |  |                          |  |                            |
| Exports - Exportations - Exportaciones  |                              |                            |  |                                 |                               |  |                                   |   |   |   |                            |  |                               |  |                          |  |                            |
| Stocks - Stocks - Inventario (+/-)  |                              |                            |  |                                 |                               |  |                                   |   |   |   |                            |  |                               |  |                          |  |                            |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>24 768</b>                | <b>271 368</b>             | <b>45 014</b>  | <b>1 497</b>                    | <b>34</b>                     |  |                                   | <b>49 284</b>                               | <b>312 293<br/>340</b>  | <b>74 740</b>                                       | <b>97 840<br/>- 0</b>      | <b>153 528</b>                                   | <b>2 939</b>                  | <b>27 920<br/>- 370</b>                    |                          | <b>1 061 225<br/>30</b>                          |                            |
| Differences - Écart - Diferencias   |                              |                            |  |                                 |                               |  |                                   |   |   |   |                            |  |                               |  |                          |  |                            |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |                                 |                               |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |   |                            |  |                               |  |                          |  |                            |
| Electricity - Électricité - Electrica   | - 24 768                     | - 271 368                  | - 45 014   |                                 |                               |  |                                   |   | - 43 663<br>- 2 347<br>- 741  | - 199 998<br>- 8 882<br>- 5 765<br>- 340<br>- 5 035 | - 669<br>- 409             | - 50 502<br>- 18 022                             |                               | 470 745<br>13 184                          |                          | - 165 237<br>- 16 476<br>- 2 359<br>- 186<br>0   |                            |
| CHP - Cogénération - Cogeneración   |                              |                            |  |                                 |                               |  |                                   |   |   |   |                            |  |                               |  |                          |  |                            |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |                               |  |                                   |   |   |   |                            |  |                               |  |                          |  |                            |
| Charcoal - Charbon - Carbón   |                              |                            |  |                                 |                               |  |                                   |   |   |   |                            |  |                               |  |                          |  |                            |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |  |                                 |                               |  |                                   |   |   |   |                            |  |                               |  |                          |  |                            |
| Other - Autres - Otras  |                              |                            |  |                                 |                               |  |                                   |   |   |   |                            |  |                               |  |                          |  |                            |
| Own use - Consomm. propre - Uso propio  |                              |                            |  |                                 |                               |  |                                   |   |   |   |                            |  |                               |  |                          |  |                            |
| Distribution - Distribution - Distribución  |                              |                            |  |                                 |                               |  |                                   |   |   |   |                            |  |                               |  |                          |  |                            |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |                                 |                               |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |   |                            |  |                               |  |                          |  |                            |
| <b>Total - Total - Total</b>  |                              |                            |  | <b>1 497</b>                    | <b>34</b>                     |  |                                   | <b>2 533</b>                                | <b>92 613<br/>51 558</b>  | <b>73 661<br/>3 793</b>                             | <b>8 692<br/>6 287</b>     | <b>158 563</b>                                   | <b>3 093</b>                  | <b>441 500<br/>132 121</b>                 | <b>3 275<br/>9 314</b>   | <b>785 461<br/>197 630</b>                       |                            |
| Industry - Industrie - Industria  |                              |                            |  |                                 |                               |  |                                   |   |   |   |                            |  |                               |  |                          |  |                            |
| Transport - Transport - Transporte  |                              |                            |  |                                 |                               |  |                                   |   |   |   |                            |  |                               |  |                          |  |                            |
| Commerce - Commerce - Comercial   |                              |                            |  |                                 |                               |  |                                   |   |   |   |                            |  |                               |  |                          |  |                            |
| Residential - Résidentiel - Residencial   |                              |                            |  |                                 |                               |  |                                   |   |   |   |                            |  |                               |  |                          |  |                            |
| Other - Autres - Otros  |                              |                            |  |                                 |                               |  |                                   |   |   |   |                            |  |                               |  |                          |  |                            |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |                                 |                               |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |   |                            |  |                               |  |                          |  |                            |
| <b>Total - Total - Total</b>  | <b>22 597</b>                | <b>247 574</b>             | <b>41 068</b>  | <b>1 497</b>                    | <b>34</b>                     |  |                                   | <b>17 199</b>                               | <b>186 296</b>  | <b>74 141</b>                                       | <b>33 399</b>              | <b>158 563</b>                                   | <b>3 093</b>                  |  |                          |  | <b>785 461<br/>441 500</b> |
| Electricity - Électricité - Electrica   | 22 597                       | 247 574                    | 41 068   | 1 497                           | 34                            |  |                                   | 14 276                                      | 90 798<br>390<br>2 885  | 480   | 24 707                     |  |                               |  |                          |  | 3 275<br>340 687           |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |                               |  |                                   |   |   |   |                            |  |                               |  |                          |  |                            |
| Direct use - Utilisation directe - Uso directo  |                              |                            |  |                                 |                               |  |                                   |   | 2 533   | 92 613  | 73 661                     | 8 692  | 158 563                       | 3 093                                      |                          |  |                            |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |                                 |                               |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |   |                            |  |                               |  |                          |  |                            |
| Electricity - Électricité - Electrica (in/en GWh)   | 6 880                        | 75 380                     | 12 504   |                                 |                               |  |                                   | 4 347                                       | 27 646<br>3 653   | 146   | 7 523                      |  |                               |  |                          |  | 134 425<br>4 147           |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |  |                                 |                               |  |                                   |   |   |   |                            |  |                               |  |                          |  |                            |

## United Republic of Tanzania

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar<br>Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primaires -<br>Biocombustibles primarios |          |            | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Carbon<br>Carbon | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total          |  |  |  |  |  |
|---|------------------------------|----------------------------|---|--|-----------------------------------|---|---|----------|------------|--|------------------------------|---|--------------------------|----------------|--|--|--|--|--|
|   |                              |                            |   |  |                                   |   | Solid - Solides<br>Liquid - Liquides<br>- Líquidos                          |          |            |  |                              |   |                          |                |  |  |  |  |  |
|   |                              |                            |   |  |                                   |   | Biogas - Biogaz<br>- Biogás   |          |            |  |                              |   |                          |                |  |  |  |  |  |
| <b>Primary energy - Énergie primaire - Energía primaaria</b>  |                              |                            |   |  |                                   |   |   |          |            |  |                              |   |                          |                |  |  |  |  |  |
| Production - Production - Generación  | 11 636                       | 15                         | 129   |  |                                   |   | 302 834   | 2        | 164        |  | 1                            | 178                                     |                          | 314 780        |  |  |  |  |  |
| Imports - Importations - Importaciones  |                              |                            |   |  |                                   |   | 1   |          |            |  | - 13                         |   |                          | 179            |  |  |  |  |  |
| Exports - Exportations - Exportaciones  |                              |                            |   |  |                                   |   | - 15  |          |            |  |                              | 178                                     |                          | - 27           |  |  |  |  |  |
| Stock - Stocks - Inventario (+/-)   |                              |                            |   |  |                                   |   |   |          |            |  |                              |   |                          |                |  |  |  |  |  |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>11 636</b>                | <b>15</b>                  | <b>129</b>  |  |                                   |   | <b>302 820</b>  | <b>2</b> | <b>164</b> |  | <b>- 12</b>                  | <b>178</b>                              |                          | <b>314 932</b> |  |  |  |  |  |
| Differences - Ecarts - Diferencias  |                              |                            |   |  |                                   |   |   |          |            |  |                              | - 303                                   |                          |                |  |  |  |  |  |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |   |  |                                   |   |   |          |            |  |                              |   |                          |                |  |  |  |  |  |
| Electricity - Électricité - Electrica   | - 11 636                     | - 15                       | - 129   |  |                                   |   | - 667   |          | - 47       |  |                              | 12 051                                  |                          | - 445          |  |  |  |  |  |
| CHP - Cogénération - Cogeneración   |                              |                            |   |  |                                   |   | - 297   |          |            |  |                              | 277                                     |                          | - 20           |  |  |  |  |  |
| Heat - Chaleur - Calor  |                              |                            |   |  |                                   |   | - 154 655   |          |            |  |                              |   |                          | - 84 647       |  |  |  |  |  |
| Charcoal - Charbon - Carbón   |                              |                            |   |  |                                   |   |   |          |            |  |                              |   |                          |                |  |  |  |  |  |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |   |  |                                   |   |   |          |            |  |                              |   |                          |                |  |  |  |  |  |
| Other - Autres - Otras  |                              |                            |   |  |                                   |   |   |          |            |  |                              |   |                          |                |  |  |  |  |  |
| Own use - Consomm. propre - Uso propio  |                              |                            |   |  |                                   |   |   |          |            |  |                              |   |                          |                |  |  |  |  |  |
| Distribution - Distribución - Distribución  |                              |                            |   |  |                                   |   |   |          |            |  |                              | - 2 177                                 |                          | - 2 177        |  |  |  |  |  |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |   |  |                                   |   |   |          |            |  |                              |   |                          |                |  |  |  |  |  |
| Total - Total - Total   |                              |                            |   |  |                                   |   | 147 201   |          |            |  | 117                          |   | 69 996                   | 227 340        |  |  |  |  |  |
| Industry - Industrie - Industria  |                              |                            |   |  |                                   |   | 25 830  |          |            |  |                              |   | 10 026                   | 27 907         |  |  |  |  |  |
| Transport - Transport - Transporte  |                              |                            |   |  |                                   |   |   |          |            |  |                              |   | 2 684                    |                |  |  |  |  |  |
| Commerce - Commerce - Comercial   |                              |                            |   |  |                                   |   | 97 361  |          |            |  | 117                          |   | 69 996                   | 172 714        |  |  |  |  |  |
| Residential - Résidentiel - Residencial   |                              |                            |   |  |                                   |   | 24 010  |          |            |  |                              |   | 2 684                    | 24 036         |  |  |  |  |  |
| Other - Autres - Otras  |                              |                            |   |  |                                   |   |   |          |            |  |                              |   |                          |                |  |  |  |  |  |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |   |  |                                   |   |   |          |            |  |                              |   |                          |                |  |  |  |  |  |
| Total - Total - Total   | 9 463                        | 12                         | 105   |  |                                   |   | 147 633   | 1        | 129        |  |                              | 69 996                                  |                          | 227 340        |  |  |  |  |  |
| Electricity - Électricité - Electrica   | 9 463                        | 12                         | 105   |  |                                   |   | 432   | 1        | 13         |  |                              |   |                          | 10 026         |  |  |  |  |  |
| Heat - Chaleur - Calor  |                              |                            |   |  |                                   |   | 147 201   |          |            |  | 117                          |   | 69 996                   | 217 314        |  |  |  |  |  |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |   |  |                                   |   |   |          |            |  |                              |   |                          |                |  |  |  |  |  |
| Electricity - Electricité - Electrica (in/en GWh)   | 3 232                        | 4                          | 36  |  |                                   |   | 148   | 0        | 4          |  |                              |   |                          | 3 424          |  |  |  |  |  |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |   |  |                                   |   |   |          |            |  |                              |   |                          |                |  |  |  |  |  |
| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar<br>Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primaires -<br>Biocombustibles primarios |          |            | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Carbon<br>Carbon | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total          |  |  |  |  |  |
|   |                              |                            |   |  |                                   |   | Solid - Solides<br>Liquid - Liquides<br>- Líquidos                          |          |            |  |                              |   |                          |                |  |  |  |  |  |
|   |                              |                            |   |  |                                   |   | Biogas - Biogaz<br>- Biogás   |          |            |  |                              |   |                          |                |  |  |  |  |  |
| <b>Primary energy - Énergie primaire - Energía primaaria</b>  |                              |                            |   |  |                                   |   |   |          |            |  |                              |   |                          |                |  |  |  |  |  |
| Production - Production - Generación  | 11 632                       | 15                         | 124   |  |                                   |   | 299 515   | 2        | 174        |  |                              | 0                                       | 203                      | 311 462        |  |  |  |  |  |
| Imports - Importations - Importaciones  |                              |                            |   |  |                                   |   |   |          |            |  |                              | - 4                                     |                          | 204            |  |  |  |  |  |
| Exports - Exportations - Exportaciones  |                              |                            |   |  |                                   |   |   |          |            |  |                              |   |                          | - 4            |  |  |  |  |  |
| Stock - Stocks - Inventario (+/-)   |                              |                            |   |  |                                   |   |   |          |            |  |                              |   |                          |                |  |  |  |  |  |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>11 632</b>                | <b>15</b>                  | <b>124</b>  |  |                                   |   | <b>299 515</b>  | <b>2</b> | <b>174</b> |  |                              | <b>- 4</b>                              | <b>203</b>               | <b>311 661</b> |  |  |  |  |  |
| Differences - Ecarts - Diferencias  |                              |                            |   |  |                                   |   |   |          |            |  |                              |   |                          | 101            |  |  |  |  |  |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |   |  |                                   |   |   |          |            |  |                              |   |                          |                |  |  |  |  |  |
| Electricity - Électricité - Electrica   | - 11 632                     | - 15                       | - 124   |  |                                   |   | - 667   |          | - 47       |  |                              | 12 042                                  |                          | - 445          |  |  |  |  |  |
| CHP - Cogénération - Cogeneración   |                              |                            |   |  |                                   |   | - 297   |          |            |  |                              | 275                                     |                          | - 22           |  |  |  |  |  |
| Heat - Chaleur - Calor  |                              |                            |   |  |                                   |   | - 150 432   |          |            |  |                              | 68 097                                  |                          | - 82 335       |  |  |  |  |  |
| Charcoal - Charbon - Carbón   |                              |                            |   |  |                                   |   |   |          |            |  |                              |   |                          |                |  |  |  |  |  |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |   |  |                                   |   |   |          |            |  |                              |   |                          |                |  |  |  |  |  |
| Other - Autres - Otras  |                              |                            |   |  |                                   |   |   |          |            |  |                              |   |                          |                |  |  |  |  |  |
| Own use - Consomm. propre - Uso propio  |                              |                            |   |  |                                   |   |   |          |            |  |                              |   |                          |                |  |  |  |  |  |
| Distribution - Distribución - Distribución  |                              |                            |   |  |                                   |   |   |          |            |  |                              | - 1 669                                 |                          | - 1 669        |  |  |  |  |  |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |   |  |                                   |   |   |          |            |  |                              |   |                          |                |  |  |  |  |  |
| Total - Total - Total   |                              |                            |   |  |                                   |   | 148 118   |          |            |  | 127                          |   | 68 093                   | 227 290        |  |  |  |  |  |
| Industry - Industrie - Industria  |                              |                            |   |  |                                   |   | 25 808  |          |            |  |                              |   | 10 952                   | 28 161         |  |  |  |  |  |
| Transport - Transport - Transporte  |                              |                            |   |  |                                   |   |   |          |            |  |                              |   |                          |                |  |  |  |  |  |
| Commerce - Commerce - Comercial   |                              |                            |   |  |                                   |   |   |          |            |  |                              |   |                          |                |  |  |  |  |  |
| Residential - Résidentiel - Residencial   |                              |                            |   |  |                                   |   | 97 649  |          |            |  | 127                          |   | 68 093                   | 2 845          |  |  |  |  |  |
| Other - Autres - Otras  |                              |                            |   |  |                                   |   | 24 661  |          |            |  |                              |   |                          | 171 594        |  |  |  |  |  |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |   |  |                                   |   |   |          |            |  |                              |   |                          |                |  |  |  |  |  |
| Total - Total - Total   | 10 342                       | 13                         | 110   |  |                                   |   | 148 590   | 1        | 141        |  |                              | 68 093                                  |                          | 227 290        |  |  |  |  |  |
| Electricity - Électricité - Electrica   | 10 342                       | 13                         | 110   |  |                                   |   | 471   | 1        | 14         |  |                              |   |                          | 10 952         |  |  |  |  |  |
| Heat - Chaleur - Calor  |                              |                            |   |  |                                   |   | 148 118   |          |            |  | 127                          |   | 68 093                   | 216 338        |  |  |  |  |  |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |   |  |                                   |   |   |          |            |  |                              |   |                          |                |  |  |  |  |  |
| Electricity - Electricité - Electrica (in/en GWh)   | 3 231                        | 4                          | 34  |  |                                   |   | 147   | 0        | 4          |  |                              |   |                          | 3 421          |  |  |  |  |  |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |   |  |                                   |   |   |          |            |  |                              |   |                          |                |  |  |  |  |  |

## United States of America

## United States of America

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                        |                                 | Geothermal<br>Géothermique | Other RE<br>Autres ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                                 |                             | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total            |
|---|------------------------------|----------------------------|--|---------------------------------|----------------------------|-----------------------|---|---|---------------------------------|-----------------------------|--|-------------------------------|---|--------------------------|------------------|
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica |                            |                       |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás |  |                               |   |                          |                  |
| <b>Primary energy - Énergie primaire - Energía primaria</b>   |                              |                            |  |                                 |                            |                       |   |   |                                 |                             |  |                               |   |                          |                  |
| Production - Production - Generación  | 923 767                      | 1 581 372                  | 661 723  | 157 919                         | 397 722                    |                       | 121 031                                     | 2 395 128 e   | 1 781 842                       | 92 982                      |  |                               |   |                          | 8 113 487        |
| Imports - Importations - Importaciones  |                              |                            |  |                                 |                            |                       |   |   | 79 372                          |                             |  | 3 290 o                       | 3 728                                   | 43 763                   | 130 152          |
| Exports - Exportations - Exportaciones  |                              |                            |  |                                 |                            |                       |   |   | - 146 873                       |                             |  | - 151 894 o                   | - 550                                   | - 12 105                 | - 311 421        |
| Stock - Stocks - Inventario (+/-)   |                              |                            |  |                                 |                            |                       |   |   | - 10 436                        |                             |  |                               |   |                          | - 10 436         |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>923 767</b>               | <b>1 581 372</b>           | <b>661 723</b>                                 | <b>157 919</b>                  | <b>397 722</b>             |                       | <b>121 031</b>                              | <b>2 395 128</b>  | <b>1 781 842</b>                | <b>92 982</b>               |  | <b>3 178</b>                  | <b>31 658</b>                           | <b>7 921 782</b>         | <b>- 5 370</b>   |
| Differences - Ecarts - Diferencias  |                              |                            |  |                                 |                            |                       |   | 10 552  | 1 703 905                       |                             |  | - 148 604                     |   |                          | 92 307           |
|   |                              |                            |  |                                 |                            |                       |   |   | - 103 349                       |                             |  |                               |   | - 4 880                  |                  |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |                                 |                            |                       |   |   |                                 |                             |  |                               |   |                          |                  |
| Electricity - Électricité - Electrica   | - 923 767                    | - 1 581 372                | - 661 723                                      | - 26 637                        | - 382 843                  |                       |   | - 101 187   | - 119 914                       | - 5 481                     |  |                               |   |                          | - 549 403        |
| CHP - Cogénération - Cogeneración   |                              |                            |  |                                 |                            |                       |   | - 10 545  | - 198 356                       | - 1 886                     |  |                               |   |                          | - 67 048         |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |                            |                       |   |   |                                 |                             |  |                               |   |                          |                  |
| Charcoal - Charbon - Carbón   |                              |                            |  |                                 |                            |                       |   |   | - 49 762                        |                             |  |                               |   |                          | - 23 520         |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |  |                                 |                            |                       |   |   | - 161 484 e                     |                             |  |                               |   |                          |                  |
| Other - Autres - Otras  |                              |                            |  |                                 |                            |                       |   |   |                                 |                             |  |                               |   |                          |                  |
| Own use - Consomm. propre - Uso propio  |                              |                            |  |                                 |                            |                       |   |   |                                 |                             |  |                               |   |                          |                  |
| Distribution - Distribution - Distribución  |                              |                            |  |                                 |                            |                       |   |   |                                 |                             |  |                               |   |                          | - 262 138        |
|   |                              |                            |  |                                 |                            |                       |   |   |                                 |                             |  |                               |   |                          | - 161 852        |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |                                 |                            |                       |   |   |                                 |                             |  |                               |   |                          |                  |
| Total - Total - Total   |                              |                            |  | 131 282                         | 14 879                     |                       | 9 299                                       | 1 876 163   | 1 593 189                       | 475                         | 12 881   | 29 420                        | 3 169 778                               | 24 845                   | 6 862 210        |
| Industry - Industrie - Industria  |                              |                            |  | 74 079                          |                            |                       | 9 299                                       | 1 244 697   | 20 435                          | 117                         |  |                               | 648 872                                 | 15 775                   | 1 929 896        |
| Transport - Transport - Transporte  |                              |                            |  | 57 202                          | 14 879                     |                       |   | 1 557 543   |                                 |                             |  |                               | 12 858                                  |                          | 1 570 401        |
| Commerce - Commerce - Comercial   |                              |                            |  |                                 | 1                          |                       |   | 30 156  | 4 347                           |                             | 351  |                               | 1 034 363                               | 4 190                    | 1 156 785        |
| Residential - Résidentiel - Residencial   |                              |                            |  |                                 |                            |                       |   | 527 292 e   | 5 866                           |                             |  |                               | 1 158 858                               |                          | 1 806 397        |
| Other - Autres - Otras  |                              |                            |  |                                 |                            |                       |   | 74 018  | 4 998                           | 7                           |  |                               | 314 827                                 | 4 880                    | 398 731          |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |                                 |                            |                       |   |   |                                 |                             |  |                               |   |                          |                  |
| Total - Total - Total   | 847 941                      | 1 451 567                  | 607 407  | 142 051                         | 78 134                     |                       | 33 842                                      | 2 029 176   | 1 594 177                       | 35 615                      | 12 881   | 29 420                        |   |                          | 6 862 210        |
| Electricity - Électricité - Electrica   | 847 941                      | 1 451 567                  | 607 407  | 10 769                          | 63 255                     |                       |   | 131 542   | 988                             | 33 894                      |  |                               |   |                          | 3 169 778        |
| Heat - Chaleur - Calor  |                              |                            |  | 131 282                         | 14 879                     |                       | 9 299                                       | 1 876 163   | 1 593 189                       | 475                         | 12 881   | 29 420                        |   |                          | 24 845           |
| Direct use - Utilisation directe - Uso directo  |                              |                            |  |                                 |                            |                       |   |   |                                 |                             |  |                               |   |                          | 3 667 588        |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |                                 |                            |                       |   |   |                                 |                             |  |                               |   |                          |                  |
| Electricity - Électricité - Electrica (in/en GWh)   | 256 602                      | 439 270                    | 183 812  | 3 259                           | 19 142                     |                       | 6 783                                       | 39 807  | 299                             | 10 257                      |  |                               |   |                          | 959 231          |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |  |                                 |                            |                       |   | 3 130   | 31 574                          |                             |  |                               |   |                          | 36 536           |
| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                        |                                 | Geothermal<br>Géothermique | Other RE<br>Autres ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                                 |                             | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total            |
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica |                            |                       |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás |  |                               |   |                          |                  |
| <b>Primary energy - Énergie primaire - Energía primaria</b>   |                              |                            |  |                                 |                            |                       |   |   |                                 |                             |  |                               |   |                          |                  |
| Production - Production - Generación  | 912 521                      | 1 378 130                  | 533 351  | 148 827                         | 395 499                    |                       | 126 184                                     | 2 382 410 e   | 1 657 828                       | 103 405                     |  |                               |   |                          | 7 638 155        |
| Imports - Importations - Importaciones  |                              |                            |  |                                 |                            |                       |   |   | 90 903                          |                             |  |                               |   |                          | 137 756          |
| Exports - Exportations - Exportaciones  |                              |                            |  |                                 |                            |                       |   |   | - 133 396                       |                             |  |                               |   |                          | - 271 407        |
| Stock - Stocks - Inventario (+/-)   |                              |                            |  |                                 |                            |                       |   |   | 3 816                           |                             |  |                               |   |                          | 3 816            |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>912 521</b>               | <b>1 378 130</b>           | <b>533 351</b>                                 | <b>148 827</b>                  | <b>395 499</b>             |                       | <b>126 184</b>                              | <b>2 382 410</b>  | <b>1 619 151</b>                | <b>103 405</b>              |  | <b>4 784</b>                  | <b>28 024</b>                           |                          | <b>7 508 320</b> |
| Differences - Ecarts - Diferencias  |                              |                            |  |                                 |                            |                       |   |   | - 93 467                        |                             |  |                               |   |                          | - 14 301         |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |                                 |                            |                       |   |   |                                 |                             |  |                               |   |                          |                  |
| Electricity - Électricité - Electrica   | - 912 521                    | - 1 378 130                | - 533 351                                      | - 25 913                        | - 381 535                  |                       |   | - 105 150   | - 116 310                       | - 4 751                     |  |                               |   |                          | - 553 946        |
| CHP - Cogénération - Cogeneración   |                              |                            |  |                                 |                            |                       |   | - 14 670  | - 206 909                       | - 1 933                     |  |                               |   |                          | - 70 752         |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |                            |                       |   |   |                                 |                             |  |                               |   |                          |                  |
| Charcoal - Charbon - Carbón   |                              |                            |  |                                 |                            |                       |   |   | - 49 762                        |                             |  |                               |   |                          |                  |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |  |                                 |                            |                       |   |   | - 142 950 e                     |                             |  |                               |   |                          | - 23 520         |
| Other - Autres - Otras  |                              |                            |  |                                 |                            |                       |   |   |                                 |                             |  |                               |   |                          |                  |
| Own use - Consomm. propre - Uso propio  |                              |                            |  |                                 |                            |                       |   |   |                                 |                             |  |                               |   |                          |                  |
| Distribution - Distribution - Distribución  |                              |                            |  |                                 |                            |                       |   |   |                                 |                             |  |                               |   |                          | - 250 066        |
|   |                              |                            |  |                                 |                            |                       |   |   |                                 |                             |  |                               |   |                          | - 178 924        |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |                                 |                            |                       |   |   |                                 |                             |  |                               |   |                          |                  |
| Total - Total - Total   |                              |                            |  | 122 914                         | 13 964                     |                       | 6 364                                       | 1 866 479   | 1 519 000                       | 433                         | 18 984   | 31 025                        | 2 820 778                               | 27 785                   | 6 427 726        |
| Industry - Industrie - Industria  |                              |                            |  | 74 354                          |                            |                       | 5 061                                       | 1 307 944   | 25 852                          | 97                          |  |                               | 597 842                                 | 17 642                   | 1 950 680        |
| Transport - Transport - Transporte  |                              |                            |  | 48 561                          | 13 964                     |                       |   | 55 303  | 1 469 836                       |                             |  |                               | 9 128                                   |                          | 1 478 964        |
| Commerce - Commerce - Comercial   |                              |                            |  | - 1                             |                            |                       |   | 445 862 e   | 6 606                           |                             |  |                               | 940 055                                 | 4 685                    | 1 086 396        |
| Residential - Résidentiel - Residencial   |                              |                            |  |                                 |                            |                       |   | 57 370  | 9 163                           |                             |  |                               | 1 062 393                               |                          | 1 629 952        |
| Other - Autres - Otras  |                              |                            |  |                                 |                            |                       |   |   | 7 543                           | 4                           |  |                               | 211 360                                 | 5 457                    | 281 734          |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |                                 |                            |                       |   |   |                                 |                             |  |                               |   |                          |                  |
| Total - Total - Total   | 825 380                      | 1 246 526                  | 482 419  | 133 236                         | 76 083                     |                       | 34 201                                      | 2 021 060   | 1 520 006                       | 38 805                      | 18 984   | 31 025                        |   |                          | 6 427 726        |
| Electricity - Électricité - Electrica   | 825 380                      | 1 246 526                  | 482 419  | 10 322                          | 62 119                     |                       |   | 23 266  | 132 824                         | 1 006                       |  |                               | 36 916                                  |                          | 2 820 778        |
| Heat - Chaleur - Calor  |                              |                            |  | 122 914                         | 13 964                     |                       |   | 4 571   | 21 757                          | 4 571                       |  |                               | 1 457                                   |                          | 27 785           |
| Direct use - Utilisation directe - Uso directo  |                              |                            |  |                                 |                            |                       |   | 6 364   | 1 866 479                       | 1 519 000                   |  |                               | 433                                     | 18 984                   | 31 025           |
|   |                              |                            |  |                                 |                            |                       |   |   |                                 |                             |  |                               |   |                          | 3 579 164        |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |                                 |                            |                       |   |   |                                 |                             |  |                               |   |                          |                  |
| Electricity - Électricité - Electrica (in/en GWh)   | 253 478                      | 382 814                    | 148 153  | 3 170                           | 19 077                     |                       |   | 7 145   | 40 791                          | 309                         | 11 337   |                               |   |                          | 866 274          |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |  |                                 |                            |                       |   | 6 722   | 31 996                          |                             | 2 142  |                               |   |                          | 40 860           |

## Uruguay

## Uruguay

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                        |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                             |               | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total              |
|---|------------------------------|----------------------------|--|---------------------------------|-------------------------------|--|-----------------------------------|---|---|-----------------------------|---------------|--|-------------------------------|---|--------------------------|--------------------|
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás |               |  |                               |   |                          |                    |
| <b>Primary energy - Énergie primaire - Energía primaaria</b>  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |               |  |                               |   |                          |                    |
| Production - Production - Generación  | 20 371                       | 17 192                     | 1 809  | 301                             |                               |  |                                   |   | 90 192<br>75  | 2 449                       | 244           |  | 142                           | 272                                     |                          | 132 559<br>490     |
| Imports - Importations - Importaciones  |                              |                            |  |                                 |                               |  |                                   |   | - 335   |                             |               |  |                               | - 4 600                                 |                          | - 4 935<br>- 100   |
| Exports - Exportations - Exportaciones  |                              |                            |  |                                 |                               |  |                                   |   | - 100   |                             |               |  |                               |   |                          | - 100              |
| Stock - Stocks - Inventario (+/-)   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |               |  |                               |   |                          |                    |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>20 371</b>                | <b>17 192</b>              | <b>1 809</b>                                   | <b>301</b>                      | <b>- 4</b>                    |  |                                   |   | <b>90 267</b>   | <b>2 014</b>                | <b>244</b>    |  | <b>142</b>                    | <b>- 4 328</b>                          | <b>4 559</b>             | <b>128 014</b>     |
| <i>Differences - écarts - Diferencias</i>   |                              |                            |  |                                 |                               |  |                                   |   | - 8   |                             |               |  |                               |   |                          | <b>4 546</b>       |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |               |  |                               |   |                          |                    |
| Electricity - Électricité - Electrica   | - 20 371                     | - 17 192                   | - 1 809  |                                 |                               |  |                                   |   | - 5 543<br>- 7 210  | - 8                         | - 45<br>- 199 |  |                               | 43 378                                  |                          | - 1 591<br>- 7 408 |
| CHP - Cogénération - Cogeneración   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |               |  |                               |   |                          |                    |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |               |  |                               |   |                          |                    |
| Charcoal - Charbon - Carbón   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |               |  |                               |   |                          |                    |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |               |  |                               |   |                          |                    |
| Other - Autres - Otras  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |               |  |                               |   |                          |                    |
| Own use - Consomm. propre - Uso propio  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |               |  |                               |   |                          |                    |
| Distribution - Distribution - Distribución  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |               |  |                               |   |                          |                    |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |               |  |                               |   |                          |                    |
| Total - Total - Total   |                              |                            |  | 297                             |                               |  |                                   |   | 77 514<br>63 769  | 1 997<br>8                  |               |  | 142                           | 38 160                                  |                          | 118 111<br>75 149  |
| Industry - Industrie - Industria  |                              |                            |  | 8                               |                               |  |                                   |   | 1 955   |                             |               |  |                               | 23                                      |                          | 1 978              |
| Transport - Transport - Transporte  |                              |                            |  | 42                              |                               |  |                                   |   | 925   |                             | 4             |  |                               | 10 581                                  |                          | 11 553             |
| Commerce - Commerce - Comercial   |                              |                            |  | 247                             |                               |  |                                   |   | 12 188  |                             |               |  |                               | 15 230                                  |                          | 27 807             |
| Residential - Résidentiel - Residencial   |                              |                            |  |                                 |                               |  |                                   |   | 632   | 29                          |               |  |                               | 963                                     |                          | 1 624              |
| Other - Autres - Otros  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |               |  |                               |   |                          |                    |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |               |  |                               |   |                          |                    |
| Total - Total - Total   | 17 920                       | 15 124                     | 1 592  | 297                             |                               |  |                                   |   | 80 967<br>3 452   | 1 997<br>1 997              | 72<br>72      |  | 142                           |   |                          | 118 111<br>38 160  |
| Electricity - Électricité - Electrica   | 17 920                       | 15 124                     | 1 592  |                                 |                               |  |                                   |   | 77 514  | 1 997                       |               |  |                               |   |                          | 79 951             |
| Heat - Chaleur - Calor  |                              |                            |  | 297                             |                               |  |                                   |   |   |                             |               |  |                               |   |                          |                    |
| Direct use - Utilisation directe - Uso directo  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |               |  |                               |   |                          |                    |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |                                 |                               |  |                                   |   |   |                             |               |  |                               |   |                          |                    |
| Electricity - Électricité - Electrica (in/en GWh)   | 5 659                        | 4 776                      | 503  |                                 |                               |  |                                   |   | 1 090   |                             | 23            |  |                               |   |                          | 12 050             |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |               |  |                               |   |                          |                    |

| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                        |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                             |               | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total              |
|---|------------------------------|----------------------------|--|---------------------------------|-------------------------------|--|-----------------------------------|---|---|-----------------------------|---------------|--|-------------------------------|---|--------------------------|--------------------|
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás |               |  |                               |   |                          |                    |
| <b>Primary energy - Énergie primaire - Energía primaaria</b>  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |               |  |                               |   |                          |                    |
| Production - Production - Generación  | 18 997                       | 17 943                     | 1 762  | 285                             |                               |  |                                   |   | 90 692  | 4 158                       | 244           |  | 121                           | 164                                     |                          | 134 080<br>286     |
| Imports - Importations - Importaciones  |                              |                            |  |                                 |                               |  |                                   |   |   | - 50                        |               |  |                               | - 8 546                                 |                          | - 8 546<br>50      |
| Exports - Exportations - Exportaciones  |                              |                            |  |                                 |                               |  |                                   |   | 90 692  | 4 107<br>105                | 244           |  | 121                           | - 8 382<br>5 237                        |                          | 125 769<br>5 337   |
| Stock - Stocks - Inventario (+/-)   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |               |  |                               |   |                          |                    |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>18 997</b>                | <b>17 943</b>              | <b>1 762</b>                                   | <b>285</b>                      |                               |  |                                   |   |   |                             |               |  |                               |   |                          |                    |
| <i>Differences - écarts - Diferencias</i>   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |               |  |                               |   |                          |                    |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |               |  |                               |   |                          |                    |
| Electricity - Électricité - Electrica   | - 18 997                     | - 17 943                   | - 1 762  |                                 |                               |  |                                   |   | - 6 161<br>- 8 080  | - 68<br>- 65                | - 45<br>- 199 |  |                               | 42 707                                  |                          | - 2 268<br>- 8 344 |
| CHP - Cogénération - Cogeneración   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |               |  |                               |   |                          |                    |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |               |  |                               |   |                          |                    |
| Charcoal - Charbon - Carbón   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |               |  |                               |   |                          |                    |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |               |  |                               |   |                          |                    |
| Other - Autres - Otras  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |               |  |                               |   |                          |                    |
| Own use - Consomm. propre - Uso propio  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |               |  |                               |   |                          |                    |
| Distribution - Distribution - Distribución  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |               |  |                               |   |                          |                    |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |               |  |                               |   |                          |                    |
| Total - Total - Total   |                              |                            | 281  | 8                               |                               |  |                                   |   | 76 448<br>62 702  | 4 054<br>804                |               |  | 121                           | 34 649<br>10 961                        |                          | 115 553<br>74 476  |
| Industry - Industrie - Industria  |                              |                            |  | 42                              |                               |  |                                   |   | 925   | 13                          |               |  |                               | 14                                      |                          | 3 037              |
| Transport - Transport - Transporte  |                              |                            |  | 230                             |                               |  |                                   |   | 12 188  | 8                           |               |  |                               | 13 588                                  |                          | 10 200             |
| Commerce - Commerce - Comercial   |                              |                            |  |                                 |                               |  |                                   |   | 632   | 205                         |               |  |                               | 866                                     |                          | 26 136             |
| Residential - Résidentiel - Residencial   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |               |  |                               |   |                          | 1 704              |
| Other - Autres - Otros  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |               |  |                               |   |                          |                    |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |               |  |                               |   |                          |                    |
| Total - Total - Total   | 15 413                       | 14 557                     | 1 429  | 281                             |                               |  |                                   |   | 79 632  | 4 054                       | 66            |  | 121                           |   |                          | 115 553<br>34 649  |
| Electricity - Électricité - Electrica   | 15 413                       | 14 557                     | 1 429  |                                 |                               |  |                                   |   | 76 448  | 4 054                       |               |  |                               |   |                          | 80 903             |
| Heat - Chaleur - Calor  |                              |                            |  | 281                             |                               |  |                                   |   |   |                             |               |  |                               |   |                          |                    |
| Direct use - Utilisation directe - Uso directo  |                              |                            |  |                                 |                               |  |                                   |   |   |                             |               |  |                               |   |                          |                    |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |                                 |                               |  |                                   |   |   |                             |               |  |                               |   |                          |                    |
| Electricity - Électricité - Electrica (in/en GWh)   | 5 277                        | 4 984                      | 489  |                                 |                               |  |                                   |   | 1 090   |                             | 23            |  |                               |   |                          | 11 863             |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |  |                                 |                               |  |                                   |   |   |                             |               |  |                               |   |                          |                    |

## Uzbekistan

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                        |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                             |            | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total         |               |               |
|---|--|----------------------------|--|---------------------------------|-------------------------------|--|-----------------------------------|---|---|-----------------------------|------------|--|-------------------------------|---|--------------------------|---------------|---------------|---------------|
|   |  |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás |            |  |                               |   |                          |               |               |               |
|   |  |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |               |               |               |
| <b>Primary energy - Énergie primaire - Energía primaaria</b>  |  |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |               |               |               |
| Production - Production - Generación  | 23 400                                       | o                          | o  | 1 569                           | o                             |  |                                   |   |   |                             | 130 e      |  |                               |   | 34 e                     | 765           | 25 098        |               |
| Imports - Importations - Importaciones  |  |                            |  |                                 |                               |  |                                   |   |   |                             | 0 e        |  |                               |   | - 3 e                    | 765           | 799           |               |
| Exports - Exportations - Exportaciones  |  |                            |  |                                 |                               |  |                                   |   |   |                             | e          |  |                               |   |                          |               | - 3           |               |
| Stock - Stocks - Inventario (+/-)   |  |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |               |               |               |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>23 400</b>                                |                            |  | <b>1 569</b>                    |                               |  |                                   |   |   |                             | <b>130</b> |  |                               |   | <b>31</b>                | <b>765</b>    | <b>25 894</b> |               |
| Differences - écarts - Diferencias  |  |                            |  |                                 |                               |  |                                   |   |   |                             | - 49       |  |                               |   | - 0                      |               | - 49          |               |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |  |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |               |               |               |
| Electricity - Electricité - Electrica   | - 23 400                                     | o                          | o  | - 1 569                         | o                             |  |                                   |   |   |                             | - 81 e     |  |                               |   | 37 e                     | 24 969        |               |               |
| CHP - Cogénération - Cogeneración   |  |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |               | - 44          |               |
| Heat - Chaleur - Calor  |  |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |               |               |               |
| Charcoal - Charbon - Carbón   |  |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |               |               |               |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |  |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |               |               |               |
| Other - Autres - Otras  |  |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |               |               |               |
| Own use - Consomm. propre - Uso propio  |  |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |               |               |               |
| Distribution - Distribution - Distribución  |  |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |               |               |               |
| <b>Final consumption - Consommation finale - Consumo final</b>  |  |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |               |               |               |
| <b>Total - Total - Total</b>  |  |                            |  |                                 |                               |  |                                   |   |   |                             | e          |  |                               |   | <b>25 733</b>            |               | <b>25 733</b> |               |
| Industry - Industrie - Industria  |  |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   | 7 169                    |               | 7 169         |               |
| Transport - Transport - Transporte  |  |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   | 471                      |               | 471           |               |
| Commerce - Commerce - Comercial   |  |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   | 2 310                    |               | 2 310         |               |
| Residential - Résidentiel - Residencial   |  |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   | 5 874                    |               | 5 874         |               |
| Other - Autres - Otros  |  |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   | 9 910                    |               | 9 910         |               |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |  |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |               |               |               |
| <b>Total - Total - Total</b>  | <b>24 116</b>                                |                            |  | <b>1 617</b>                    |                               |  |                                   |   |   |                             |            |  |                               |   |                          | <b>25 733</b> |               | <b>25 733</b> |
| Electricity - Electricité - Electrica   | 24 116                                       |                            |  | 1 617                           |                               |  |                                   |   |   |                             |            |  |                               |   |                          |               |               |               |
| Heat - Chaleur - Calor  |  |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |               |               |               |
| Direct use - Utilisation directe - Uso directo  |  |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |               |               |               |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |  |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |               |               |               |
| Electricity - Electricité - Electrica (in/en GWh)   | 6 500  |                            |  | 436                             |                               |  |                                   |   |   |                             |            |  |                               |   |                          |               | 6 936         |               |
| Heat - Chaleur - Calor (in/en TJ)   |  |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |               |               |               |
| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                        |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                             |            | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total         |               |               |
|   |  |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás |            |  |                               |   |                          |               |               |               |
|   |  |                            |  |                                 |                               |  |                                   |   |   |                             | e          |  |                               |   |                          |               |               |               |
| <b>Primary energy - Énergie primaire - Energía primaaria</b>  |  |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |               |               |               |
| Production - Production - Generación  | 18 000                                       | o                          | 4 e  | 176                             | o                             |  |                                   |   |   |                             | 130 e      |  |                               |   | 24 e                     | 1 749         | 18 310        |               |
| Imports - Importations - Importaciones  |  |                            |  |                                 |                               |  |                                   |   |   |                             | 1          |  |                               |   | - 2                      | 1 749         | 1 775         |               |
| Exports - Exportations - Exportaciones  |  |                            |  |                                 |                               |  |                                   |   |   |                             | - 0        |  |                               |   |                          |               | - 739         |               |
| Stock - Stocks - Inventario (+/-)   |  |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |               |               |               |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>18 000</b>                                |                            | <b>4</b>                                       | <b>176</b>                      |                               |  |                                   |   |   |                             | <b>131</b> |  |                               |   | <b>22</b>                | <b>1 012</b>  | <b>19 346</b> |               |
| Differences - écarts - Diferencias  |  |                            |  |                                 |                               |  |                                   |   |   |                             | - 0        |  |                               |   |                          |               | - 0           |               |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |  |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |               |               |               |
| Electricity - Electricité - Electrica   | - 18 000                                     | o                          | - 4 e  | - 176                           | o                             |  |                                   |   |   |                             | - 33 e     |  |                               |   | 15 e                     | 18 181        |               |               |
| CHP - Cogénération - Cogeneración   |  |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |               | - 18          |               |
| Heat - Chaleur - Calor  |  |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   | - 932                    |               | - 932         |               |
| Charcoal - Charbon - Carbón   |  |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   | - 667                    |               | - 667         |               |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |  |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |               |               |               |
| Other - Autres - Otras  |  |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |               |               |               |
| Own use - Consomm. propre - Uso propio  |  |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |               |               |               |
| Distribution - Distribution - Distribución  |  |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |               |               |               |
| <b>Final consumption - Consommation finale - Consumo final</b>  |  |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |               |               |               |
| <b>Total - Total - Total</b>  |  |                            |  |                                 |                               |  |                                   |   |   |                             | 98         |  |                               |   | <b>37</b>                | <b>17 594</b> | <b>17 729</b> |               |
| Industry - Industrie - Industria  |  |                            |  |                                 |                               |  |                                   |   |   |                             | 98 e       |  |                               |   | 5 644                    |               | 5 644         |               |
| Transport - Transport - Transporte  |  |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   | 313                      |               | 313           |               |
| Commerce - Commerce - Comercial   |  |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   | 2 086                    |               | 2 086         |               |
| Residential - Résidentiel - Residencial   |  |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   | 4 311                    |               | 4 445         |               |
| Other - Autres - Otros  |  |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   | 5 240                    |               | 5 240         |               |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |  |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |               |               |               |
| <b>Total - Total - Total</b>  | <b>17 419</b>                                |                            | <b>4</b>                                       | <b>171</b>                      | <b>0</b>                      |  |                                   |   |   |                             | <b>98</b>  |  |                               |   | <b>37</b>                | <b>17 594</b> | <b>17 729</b> |               |
| Electricity - Electricité - Electrica   | 17 419                                       |                            | 4  | 171                             | 0                             |  |                                   |   |   |                             | 98         |  |                               |   | 37                       |               | 17 594        |               |
| Heat - Chaleur - Calor  |  |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |               |               |               |
| Direct use - Utilisation directe - Uso directo  |  |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |               | 135           |               |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |  |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |               |               |               |
| Electricity - Electricité - Electrica (in/en GWh)   | 5 000  |                            | 1  | 49                              |                               |  |                                   |   |   |                             |            |  |                               |   |                          |               | 5 050         |               |
| Heat - Chaleur - Calor (in/en TJ)   |  |                            |  |                                 |                               |  |                                   |   |   |                             |            |  |                               |   |                          |               |               |               |

## Vanuatu

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                              |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios   |                                 |                             | Pellets/briq.<br>Granules/briq.<br>Pellets/briq.     | Charcoal<br>Charbon<br>Carbon | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total |             |             |
|---|------------------------------|----------------------------|--|---------------------------------|--|-----------------------------------|---|---|---------------------------------|-----------------------------|--|-------------------------------|---|--------------------------|-------|-------------|-------------|
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica       | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás |  |                               |   |                          |       |             |             |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaria |                                 |  |                                   |   |   |                                 |                             | Primary energy - Énergie primaire - Energía primaria |                               |   |                          |       |             |             |
| Production - Production - Generación  | 33                           | 10                         | 25   | 8                               |  |                                   |   | 1032  |                                 |                             |  |                               |   |                          |       | 1107        |             |
| Imports - Importations - Importaciones  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |       |             |             |
| Exports - Exportations - Exportaciones  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |       |             |             |
| Stock - Stocks - Inventario (+/-)   | 33                           | 10                         | 25   | 8                               |  |                                   |   | 1032  |                                 |                             |  |                               |   |                          |       | 1107        |             |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>33</b>                    | <b>10</b>                  | <b>25</b>  | <b>8</b>                        |  |                                   |   |   |                                 |                             |  |                               |   |                          |       | <b>- 4</b>  | <b>- 4</b>  |
| Differences - Ecarts - Diferencias  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |       |             |             |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |                                 |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                                 |                             |  |                               |   |                          |       |             |             |
| Electricity - Électricité - Electrica   | - 33                         | - 10                       | - 25   |                                 |  |                                   |   | - 49  |                                 |                             |  |                               |   |                          |       | 68          |             |
| CHP - Cogénération - Cogeneración   |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |       |             |             |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |       |             |             |
| Charcoal - Charbon - Carbón   |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |       |             |             |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |       |             |             |
| Other - Autres - Otras  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |       |             |             |
| Own use - Consomm. propre - Uso propio  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |       |             |             |
| Distribution - Distribution - Distribución  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |       | - 2         | - 2         |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |                                 |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                                 |                             |  |                               |   |                          |       |             |             |
| <b>Total - Total - Total</b>  |                              |                            |  |                                 | 8  |                                   |   | 983   |                                 |                             |  |                               |   |                          |       | <b>62</b>   | <b>1053</b> |
| Industry - Industrie - Industria  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |       | <b>22</b>   | <b>22</b>   |
| Transport - Transport - Transporte  |                              |                            |  |                                 | 4  |                                   |   | 147   |                                 |                             |  |                               |   |                          |       |             |             |
| Commerce - Commerce - Comercial   |                              |                            |  |                                 | 4  |                                   |   | 836   |                                 |                             |  |                               |   |                          |       |             |             |
| Residential - Résidentiel - Residencial   |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |       |             |             |
| Other - Autres - Otros  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |       |             |             |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |                                 |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                                 |                             |  |                               |   |                          |       |             |             |
| <b>Total - Total - Total</b>  | <b>30</b>                    | <b>9</b>                   | <b>23</b>  | <b>8</b>                        |  |                                   |   | 983   |                                 |                             |  |                               |   |                          |       | <b>1053</b> | <b>62</b>   |
| Electricity - Électricité - Electrica   | 30                           | 9                          | 23   | 8                               |  |                                   |   | 983   |                                 |                             |  |                               |   |                          |       |             | 991         |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |       |             |             |
| Direct use - Utilisation directe - Uso directo  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |       |             |             |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |                                 |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                                 |                             |  |                               |   |                          |       |             |             |
| Electricity - Électricité - Electrica (in/en GWh)   | 9                            | 3                          | 7  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |       |             | 19          |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |       |             |             |
| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                              |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios   |                                 |                             | Pellets/briq.<br>Granules/briq.<br>Pellets/briq.     | Charcoal<br>Charbon<br>Carbon | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total |             |             |
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica       | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás |  |                               |   |                          |       |             |             |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaria |                                 |  |                                   |   |   |                                 |                             | Primary energy - Énergie primaire - Energía primaria |                               |   |                          |       |             |             |
| Production - Production - Generación  | 31                           | 15                         | 26   | 8                               |  |                                   |   | 1032  |                                 |                             |  | 0                             |   |                          |       | 111         | 0           |
| Imports - Importations - Importaciones  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  | 0                             |   |                          |       |             |             |
| Exports - Exportations - Exportaciones  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  | 0                             |   |                          |       |             |             |
| Stock - Stocks - Inventario (+/-)   | 31                           | 15                         | 26   | 8                               |  |                                   |   | 1032  |                                 |                             |  |                               |   |                          |       | 111         |             |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>31</b>                    | <b>15</b>                  | <b>26</b>  | <b>8</b>                        |  |                                   |   |   |                                 |                             |  |                               |   |                          |       |             |             |
| Differences - Ecarts - Diferencias  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |       |             |             |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |                                 |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                                 |                             |  |                               |   |                          |       |             |             |
| Electricity - Électricité - Electrica   | - 31                         | - 15                       | - 26   |                                 |  |                                   |   | - 47  |                                 |                             |  | 21                            |   |                          |       | 72          |             |
| CHP - Cogénération - Cogeneración   |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |       |             |             |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |       |             |             |
| Charcoal - Charbon - Carbón   |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |       |             |             |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |       |             |             |
| Other - Autres - Otras  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |       |             |             |
| Own use - Consomm. propre - Uso propio  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |       |             |             |
| Distribution - Distribution - Distribución  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |       | - 9         | - 9         |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |                                 |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                                 |                             |  |                               |   |                          |       |             |             |
| <b>Total - Total - Total</b>  |                              |                            |  |                                 | 8  |                                   |   | 985   |                                 |                             |  | 21                            | 62                                      | 21                       |       | <b>1076</b> | <b>21</b>   |
| Industry - Industrie - Industria  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |       |             |             |
| Transport - Transport - Transporte  |                              |                            |  |                                 | 4  |                                   |   | 148   |                                 |                             |  | 3                             | 14                                      |                          |       |             |             |
| Commerce - Commerce - Comercial   |                              |                            |  |                                 | 4  |                                   |   | 837   |                                 |                             |  | 18                            | 27                                      |                          |       |             |             |
| Residential - Résidentiel - Residencial   |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |       |             |             |
| Other - Autres - Otros  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |       |             |             |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |                                 |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                                 |                             |  |                               |   |                          |       |             |             |
| <b>Total - Total - Total</b>  | <b>27</b>                    | <b>13</b>                  | <b>23</b>  | <b>8</b>                        |  |                                   |   | 985   |                                 |                             |  | 21                            |   |                          |       | <b>1076</b> | <b>62</b>   |
| Electricity - Électricité - Electrica   | 27                           | 13                         | 23   | 8                               |  |                                   |   | 985   |                                 |                             |  | 21                            |   |                          |       |             | 1014        |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |       |             |             |
| Direct use - Utilisation directe - Uso directo  |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |       |             |             |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |                                 |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                                 |                             |  |                               |   |                          |       |             |             |
| Electricity - Électricité - Electrica (in/en GWh)   | 8                            | 4                          | 7  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |       |             | 20          |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |  |                                 |  |                                   |   |   |                                 |                             |  |                               |   |                          |       |             |             |

Venezuela (Bolivarian Republic of)

Venezuela (Bolivarian Republic of)

| 2022 (In/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                        |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                                 | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total          |
|---|------------------------------|----------------------------|--|---------------------------------|--|-----------------------------------|---|---|---------------------------------|--|-------------------------------|---|--------------------------|----------------|
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás                      |                               |   |                          |                |
| <b>Primary energy - Énergie primaire - Energía primaria</b>   |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |                |
| Production - Production - Generación  | 246 655                      | 58                         | 20   |                                 |  |                                   |   | 56 478  |                                 | 33   | 0                             | 0                                       | - 2 723                  |                |
| Imports - Importations - Importaciones  |                              |                            |  |                                 |  |                                   |   |   |                                 |  | - 611                         |   |                          | 303 244        |
| Exports - Exportations - Exportaciones  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          | 0              |
| Stock - Stocks - Inventario (+/-)   |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          | - 3 334        |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>246 655</b>               | <b>58</b>                  | <b>20</b>                                      |                                 |  |                                   |   | <b>56 478</b>   |                                 | <b>33</b>  | <b>0</b>                      | <b>- 611</b>                            | <b>- 2 723</b>           | <b>299 911</b> |
| Differences - Ecarts - Diferencias  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          | 20 197         |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |                |
| Electricity - Électricité - Electrica   | - 246 655                    | - 58                       | - 20   |                                 |  |                                   |   |   |                                 |  |                               |   | 246 733                  |                |
| CHP - Cogénération - Cogeneración   |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |                |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          | - 745          |
| Charcoal - Charbon - Carbón   |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |                |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |                |
| Other - Autres - Otras  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          | - 5 264        |
| Own use - Consomm. propre - Uso propio  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          | - 82 795       |
| Distribution - Distribution - Distribución  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |                |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |                |
| Total - Total - Total   |                              |                            |  |                                 |  |                                   |   | 55 117  |                                 | 33   | 0                             | 5                                       | 176 148                  |                |
| Industry - Industrie - Industria  |                              |                            |  |                                 |  |                                   |   | 6 558   |                                 | 33   |                               | 57 217                                  |                          | 231 304        |
| Transport - Transport - Transporte  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          | 63 807         |
| Commerce - Commerce - Comercial   |                              |                            |  |                                 |  |                                   |   | 7 284   |                                 |  |                               |   | 55 273                   | 62 657         |
| Residential - Résidentiel - Residencial   |                              |                            |  |                                 |  |                                   |   | 41 276  |                                 |  |                               |   | 62 368                   | 103 649        |
| Other - Autres - Otros  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   | 1190                     | 1190           |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |                |
| Total - Total - Total   | 176 092                      | 42                         | 14   |                                 |  |                                   |   | 55 117  |                                 | 33   | 0                             | 5                                       | 176 148                  |                |
| Electricity - Électricité - Electrica   | 176 092                      | 42                         | 14   |                                 |  |                                   |   |   |                                 |  |                               |   |                          | 231 304        |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          | 176 148        |
| Direct use - Utilisation directe - Uso directo  |                              |                            |  |                                 |  |                                   |   | 55 117  |                                 | 33   | 0                             | 5                                       |                          | 55 156         |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |                |
| Electricity - Électricité - Electrica (in/en GWh)   | 68 515                       | 16                         | 6  |                                 |  |                                   |   |   |                                 |  |                               |   |                          | 68 537         |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |                |

| 2021 (In/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                        |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                                 | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total          |
|---|------------------------------|----------------------------|--|---------------------------------|--|-----------------------------------|---|---|---------------------------------|--|-------------------------------|---|--------------------------|----------------|
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás                      |                               |   |                          |                |
| <b>Primary energy - Énergie primaire - Energía primaria</b>   |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |                |
| Production - Production - Generación  | 244 256                      | 69                         | 21   |                                 |  |                                   |   | 56 195  |                                 | 33   | 1                             | 2                                       | - 2 697                  |                |
| Imports - Importations - Importaciones  |                              |                            |  |                                 |  |                                   |   |   |                                 |  | - 0                           | - 470                                   |                          | 300 574        |
| Exports - Exportations - Exportaciones  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          | 2              |
| Stock - Stocks - Inventario (+/-)   |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          | - 3 167        |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>244 256</b>               | <b>69</b>                  | <b>21</b>                                      |                                 |  |                                   |   | <b>56 195</b>   |                                 | <b>33</b>  | <b>0</b>                      | <b>- 468</b>                            | <b>- 2 697</b>           | <b>297 409</b> |
| Differences - Ecarts - Diferencias  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          | 20 001         |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |                |
| Electricity - Électricité - Electrica   | - 244 256                    | - 69                       | - 21   |                                 |  |                                   |   |   |                                 |  |                               |   | 244 345                  |                |
| CHP - Cogénération - Cogeneración   |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |                |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          | - 745          |
| Charcoal - Charbon - Carbón   |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |                |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |                |
| Other - Autres - Otras  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          | - 5 213        |
| Own use - Consomm. propre - Uso propio  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          | - 81 994       |
| Distribution - Distribution - Distribución  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |                |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |                |
| Total - Total - Total   |                              |                            |  |                                 |  |                                   |   | 54 835  |                                 | 33   | 0                             | 148                                     | 174 443                  |                |
| Industry - Industrie - Industria  |                              |                            |  |                                 |  |                                   |   | 6 558   |                                 | 33   |                               | 56 663                                  |                          | 229 459        |
| Transport - Transport - Transporte  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          | 63 254         |
| Commerce - Commerce - Comercial   |                              |                            |  |                                 |  |                                   |   | 7 242   |                                 |  |                               |   | 54 837                   | 62 079         |
| Residential - Résidentiel - Residencial   |                              |                            |  |                                 |  |                                   |   | 41 035  |                                 |  |                               |   | 61 764                   | 102 948        |
| Other - Autres - Otros  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   | 1179                     | 1179           |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |                |
| Total - Total - Total   | 174 379                      | 49                         | 15   |                                 |  |                                   |   | 54 835  |                                 | 33   | 0                             | 148                                     |                          | 229 459        |
| Electricity - Électricité - Electrica   | 174 379                      | 49                         | 15   |                                 |  |                                   |   |   |                                 |  |                               |   |                          | 174 443        |
| Heat - Chaleur - Calor  |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |                |
| Direct use - Utilisation directe - Uso directo  |                              |                            |  |                                 |  |                                   |   | 54 835  |                                 | 33   | 0                             | 148                                     |                          | 55 016         |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |                |
| Electricity - Électricité - Electrica (in/en GWh)   | 67 849                       | 19                         | 6  |                                 |  |                                   |   |   |                                 |  |                               |   |                          | 67 874         |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |  |                                 |  |                                   |   |   |                                 |  |                               |   |                          |                |

Viet Nam

Viet Nam

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                               |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primaires -<br>Biocombustibles primarios   |                                 |                             | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Carbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total                            |
|---|------------------------------|----------------------------|---|---------------------------------|--|-----------------------------------|---|---|---------------------------------|-----------------------------|--|------------------------------|---|--------------------------|----------------------------------|
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás |  |                              |   |                          |                                  |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaaria |                                 |  |                                   |   | Primary energy - Énergie primaire - Energía primaaria   |                                 |                             |  |                              |   |                          |                                  |
| Production - Production - Generación  | 352 537                      | 30 403                     | 99 593  | 1 738                           |  |                                   | 477   | 337 269<br>129<br>- 143   |                                 | 7 210                       | 29<br>- 78 335                                   | 228<br>- 3 276               | 6 099<br>- 2 539                        |                          | 829 227<br>6 485<br>- 84 292     |
| Imports - Importations - Importaciones  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |                                  |
| Exports - Exportations - Exportaciones  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |                                  |
| Stock - Stocks - Inventario (+/-)   | 352 537                      | 30 403                     | 99 593  | 1 738                           |  |                                   | 477   | 337 255   |                                 | 7 210                       | - 78 306   | - 3 047                      | 3 560                                   |                          | 751 420                          |
| <b>Supply - Approvisionnement - Oferta</b>  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |                                  |
| Differences - Ecarts - Diferencias  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |                                  |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |   |                                 |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                                 |                             |  |                              |   |                          |                                  |
| Electricity - Électricité - Electrica   | - 352 537                    | - 30 403                   | - 99 593  |                                 |  |                                   | - 477                                       | - 416<br>- 4 181  |                                 | - 376                       |  |                              | 482 957<br>1 721                        |                          | - 846<br>- 2 460                 |
| CHP - Cogénération - Cogeneración   |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |                                  |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |  |                                   |   | - 28 877<br>- 78 684  |                                 |                             | 78 678   | 12 751                       |   |                          | - 16 125<br>- 6                  |
| Charcoal - Charbon - Carbón   |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |                                  |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |                                  |
| Other - Autres - Otras  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |                                  |
| Own use - Consomm. propre - Uso propio  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |                                  |
| Distribution - Distribution - Distribución  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |                                  |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |   |                                 |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                                 |                             |  |                              |   |                          |                                  |
| Total - Total - Total   |                              |                            |   | 1 738                           |  |                                   |   | 225 097<br>21 488   |                                 | 6 834                       | 372  | 9 704                        | 455 254<br>246 495                      |                          | 698 999<br>267 982               |
| Industry - Industrie - Industria  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |                                  |
| Transport - Transport - Transporte  |                              |                            |   | 869                             |  |                                   |   | 30 541<br>173 068   |                                 | 6 834                       |  | 1 456<br>8 248               | 72 940<br>101 029<br>34 791             |                          | 105 806<br>290 048<br>35 163     |
| Commerce - Commerce - Comercial   |                              |                            |   | 869                             |  |                                   |   |   |                                 |                             |  |                              |   |                          |                                  |
| Residential - Résidentiel - Residencial   |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |                                  |
| Other - Autres - Otras  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |                                  |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |   |                                 |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                                 |                             |  |                              |   |                          |                                  |
| <b>Total - Total - Total</b>  | <b>331 136</b>               | <b>28 558</b>              | <b>93 547</b>   | <b>1 738</b>                    |  |                                   | <b>149</b>                                  | <b>226 843</b><br>1747  |                                 | <b>6 952</b>                | <b>372</b>                                       | <b>9 704</b>                 | <b>455 254</b><br>246 495               |                          | <b>698 999</b><br><b>455 254</b> |
| Electricity - Électricité - Electrica   | 331 136                      | 28 558                     | 93 547  | 1 738                           |  |                                   | 149   | 225 097   |                                 | 6 834                       | 372  | 9 704                        |   |                          | 243 745                          |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |                                  |
| Direct use - Utilisation directe - Uso directo  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |                                  |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |   |                                 |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                                 |                             |  |                              |   |                          |                                  |
| Electricity - Electricité - Electrica (in/en GWh)   | 97 927                       | 8 445                      | 27 665  |                                 |  |                                   | 44  | 517   |                                 | 35                          |  |                              |   |                          | 134 633                          |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |                                  |
| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Éolienne<br>Eólica | Solar - Solaire - Solar                               |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primaires -<br>Biocombustibles primarios   |                                 |                             | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Carbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total                            |
|   |                              |                            | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás |  |                              |   |                          |                                  |
|   |                              |                            | Primary energy - Énergie primaire - Energía primaaria |                                 |  |                                   |   | Primary energy - Énergie primaire - Energía primaaria   |                                 |                             |  |                              |   |                          |                                  |
| Production - Production - Generación  | 287 755                      | 9 150                      | 98 333  | 1 659                           |  |                                   | 147   | 317 017<br>77<br>- 72   |                                 | 7 418                       | 19<br>- 59 220                                   | 255<br>- 3 460               | 2 236<br>- 1 432                        |                          | 721 479<br>2 586<br>- 64 183     |
| Imports - Importations - Importaciones  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |                                  |
| Exports - Exportations - Exportaciones  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |                                  |
| Stock - Stocks - Inventario (+/-)   | 287 755                      | 9 150                      | 98 333  | 1 659                           |  |                                   | 147   | 317 023   |                                 | 7 418                       | - 59 201   | - 3 205                      | 804                                     |                          | 659 882                          |
| <b>Supply - Approvisionnement - Oferta</b>  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |                                  |
| Differences - Ecarts - Diferencias  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |                                  |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                            |   |                                 |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                                 |                             |  |                              |   |                          |                                  |
| Electricity - Électricité - Electrica   | - 287 755                    | - 9 150                    | - 98 333  |                                 |  |                                   | - 147                                       | - 416<br>- 2 956  |                                 | - 376                       |  |                              | 395 551<br>1 156                        |                          | - 627<br>- 1 800                 |
| CHP - Cogénération - Cogeneración   |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |                                  |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |  |                                   |   | - 28 877<br>- 59 225  |                                 |                             | 59 220   | 12 751                       |   |                          | - 16 125<br>- 5                  |
| Charcoal - Charbon - Carbón   |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |                                  |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |                                  |
| Other - Autres - Otras  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |                                  |
| Own use - Consomm. propre - Uso propio  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |                                  |
| Distribution - Distribution - Distribución  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |                                  |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                            |   |                                 |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                                 |                             |  |                              |   |                          |                                  |
| Total - Total - Total   |                              |                            |   | 1 659                           |  |                                   |   | 225 549<br>21 920   |                                 | 7 042                       | 19   | 9 546                        | 365 055<br>198 939                      |                          | 608 870<br>220 859               |
| Industry - Industrie - Industria  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |                                  |
| Transport - Transport - Transporte  |                              |                            |   | 830                             |  |                                   |   | 30 544<br>173 085   |                                 | 7 042                       | 19   | 1 432<br>8 114               | 56 120<br>83 007<br>26 990              |                          | 88 926<br>272 077<br>27 008      |
| Commerce - Commerce - Comercial   |                              |                            |   | 830                             |  |                                   |   |   |                                 |                             |  |                              |   |                          |                                  |
| Residential - Résidentiel - Residencial   |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |                                  |
| Other - Autres - Otras  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |                                  |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                            |   |                                 |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                                 |                             |  |                              |   |                          |                                  |
| <b>Total - Total - Total</b>  | <b>264 797</b>               | <b>8 420</b>               | <b>90 487</b>   | <b>1 659</b>                    |  |                                   | <b>45</b>                                   | <b>226 740</b><br>1191  |                                 | <b>7 158</b>                | <b>19</b>  | <b>9 546</b>                 |   |                          | <b>608 870</b><br><b>365 055</b> |
| Electricity - Électricité - Electrica   | 264 797                      | 8 420                      | 90 487  | 1 659                           |  |                                   | 45  | 225 549   |                                 | 7 042                       | 19   | 9 546                        |   |                          | 243 815                          |
| Heat - Chaleur - Calor  |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |                                  |
| Direct use - Utilisation directe - Uso directo  |                              |                            |   | 1 659                           |  |                                   |   |   |                                 |                             |  |                              |   |                          |                                  |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                            |   |                                 |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                                 |                             |  |                              |   |                          |                                  |
| Electricity - Electricité - Electrica (in/en GWh)   | 79 932                       | 2 542                      | 27 315  |                                 |  |                                   | 14  | 360   |                                 | 35                          |  |                              |   |                          | 110 196                          |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                            |   |                                 |  |                                   |   |   |                                 |                             |  |                              |   |                          |                                  |

**Zambia**

**Zambia**

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Eoliennes<br>Eólica | Solar - Solaire - Solar                               |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                             |     | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | <b>Total</b> |
|---|------------------------------|-----------------------------|---|---------------------------------|-------------------------------|--|-----------------------------------|---|---|-----------------------------|-----|--|-------------------------------|---|--------------------------|--------------|
|   |                              |                             | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás |     |  |                               |   |                          |              |
|   |                              |                             | Primary energy - Énergie primaire - Energía primaaria |                                 |                               |  |                                   |   | Primary energy - Énergie primaire - Energía primaaria                       |                             |     |  |                               |   |                          |              |
| Production - Production - Generación  | 61 668                       |                             |   | 572                             |                               |  |                                   |   | 273 011   |                             | 90  |  | 0                             | 57                                      |                          | 335 341      |
| Imports - Importations - Importaciones  |                              |                             |   |                                 |                               |  |                                   |   | 0   |                             | - 3 |  | - 3                           | - 355                                   |                          | 57           |
| Exports - Exportations - Exportaciones  |                              |                             |   |                                 |                               |  |                                   |   | 273 011   |                             | 90  |  | - 2                           | - 299                                   |                          | - 9 358      |
| Stock - Stocks - Inventario (+/-)   | 61 668                       |                             |   | 572                             |                               |  |                                   |   |   |                             |     |  |                               | - 434                                   |                          | 326 040      |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>61 668</b>                |                             |   | <b>572</b>                      |                               |  |                                   |   |   |                             |     |  |                               |   |                          | <b>- 434</b> |
| Differences - Ecarts - Diferencias  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |     |  |                               |   |                          |              |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |     |  |                               |   |                          |              |
| Electricity - Électricité - Electrica   | - 61 668                     |                             |   | - 572                           |                               |  |                                   |   | - 740   |                             |     |  |                               | 62 240                                  |                          | - 456        |
| CHP - Cogénération - Cogeneración   |                              |                             |   |                                 |                               |  |                                   |   | - 88 180  |                             |     |  |                               | 284                                     |                          | - 48 263     |
| Heat - Chaleur - Calor  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |     |  |                               |   |                          |              |
| Charcoal - Charbon - Carbón   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |     |  |                               |   |                          |              |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |     |  |                               |   |                          |              |
| Other - Autres - Otras  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |     |  |                               |   |                          |              |
| Own use - Consomm. propre - Uso propio  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |     |  |                               |   |                          |              |
| Distribution - Distribution - Distribución  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |     |  |                               |   |                          |              |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |     |  |                               |   |                          |              |
| <b>Total - Total - Total</b>  |                              |                             |   |                                 |                               |  |                                   |   | 184 091   |                             | 90  |  | 39 914                        | <b>44 098</b>                           |                          | 268 194      |
| Industry - Industrie - Industria  |                              |                             |   |                                 |                               |  |                                   |   | 69 748  |                             |     |  |                               | 24 795                                  |                          | 94 543       |
| Transport - Transport - Transporte  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |     |  |                               | 118                                     |                          | 118          |
| Commerce - Commerce - Comercial   |                              |                             |   |                                 |                               |  |                                   |   | 114 343   |                             | 90  |  | 39 914                        | 14 558                                  |                          | 3 530        |
| Residential - Résidentiel - Residencial   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |     |  |                               | 1 097                                   |                          | 168 906      |
| Other - Autres - Otros  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |     |  |                               |   |                          | 1 097        |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |     |  |                               |   |                          |              |
| <b>Total - Total - Total</b>  | <b>43 495</b>                |                             |   | <b>404</b>                      |                               |  |                                   |   | 184 291   |                             | 90  |  | 39 914                        |   |                          | 268 194      |
| Electricity - Électricité - Electrica   | 43 495                       |                             |   | 404                             |                               |  |                                   |   | 200   |                             |     |  |                               |   |                          | 44 098       |
| Heat - Chaleur - Calor  |                              |                             |   |                                 |                               |  |                                   |   | 184 091   |                             | 90  |  | 39 914                        |   |                          | 224 096      |
| Direct use - Utilisation directe - Uso directo  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |     |  |                               |   |                          |              |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                             |   |                                 |                               |  |                                   |   |   |                             |     |  |                               |   |                          |              |
| Electricity - Électricité - Electrica (in/en GWh)   | 17 130                       |                             |   | 159                             |                               |  |                                   |   | 79  |                             |     |  |                               |   |                          | 17 368       |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |     |  |                               |   |                          |              |
| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Eoliennes<br>Eólica | Solar - Solaire - Solar                               |                                 |                               | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios |                             |     | Pellets/briq.<br>Granules/briq.<br>Pellets/briq. | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | <b>Total</b> |
|   |                              |                             | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica | Solids - Solides<br>- Sólidos |  |                                   |   | Liquid - Liquides<br>- Líquidos   | Biogas - Biogaz<br>- Biogás |     |  |                               |   |                          |              |
|   |                              |                             | Primary energy - Énergie primaire - Energía primaaria |                                 |                               |  |                                   |   | Primary energy - Énergie primaire - Energía primaaria                       |                             |     |  |                               |   |                          |              |
| Production - Production - Generación  | 58 129                       |                             |   | 581                             |                               |  |                                   |   | 273 011   |                             | 81  |  | 1                             | 59                                      |                          | 331 802      |
| Imports - Importations - Importaciones  |                              |                             |   |                                 |                               |  |                                   |   | 0   |                             | - 1 |  | - 1                           | - 7 131                                 |                          | 59           |
| Exports - Exportations - Exportaciones  |                              |                             |   | 581                             |                               |  |                                   |   | 273 011   |                             | 81  |  | - 0                           | - 7 073                                 |                          | - 7 133      |
| Stock - Stocks - Inventario (+/-)   | 58 129                       |                             |   |                                 |                               |  |                                   |   |   |                             |     |  |                               |   |                          | 324 729      |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>58 129</b>                |                             |   | <b>581</b>                      |                               |  |                                   |   |   |                             |     |  |                               |   |                          | <b>- 554</b> |
| Differences - Ecarts - Diferencias  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |     |  |                               |   |                          |              |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |     |  |                               |   |                          |              |
| Electricity - Électricité - Electrica   | - 58 129                     |                             |   | - 581                           |                               |  |                                   |   | - 741   |                             |     |  |                               | 58 710                                  |                          | - 458        |
| CHP - Cogénération - Cogeneración   |                              |                             |   |                                 |                               |  |                                   |   | - 88 180  |                             |     |  |                               | 284                                     |                          | - 48 263     |
| Heat - Chaleur - Calor  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |     |  |                               |   |                          |              |
| Charcoal - Charbon - Carbón   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |     |  |                               |   |                          |              |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |     |  |                               |   |                          |              |
| Other - Autres - Otras  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |     |  |                               |   |                          |              |
| Own use - Consomm. propre - Uso propio  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |     |  |                               |   |                          |              |
| Distribution - Distribution - Distribución  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |     |  |                               |   |                          |              |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |     |  |                               |   |                          |              |
| <b>Total - Total - Total</b>  |                              |                             |   |                                 |                               |  |                                   |   | 184 090   |                             | 81  |  | 39 916                        | <b>42 520</b>                           |                          | 266 608      |
| Industry - Industrie - Industria  |                              |                             |   |                                 |                               |  |                                   |   | 69 747  |                             |     |  |                               | 22 985                                  |                          | 92 732       |
| Transport - Transport - Transporte  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |     |  |                               | 105                                     |                          | 105          |
| Commerce - Commerce - Comercial   |                              |                             |   |                                 |                               |  |                                   |   | 114 343   |                             | 81  |  | 39 916                        | 14 837                                  |                          | 3 420        |
| Residential - Résidentiel - Residencial   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |     |  |                               | 1 174                                   |                          | 169 178      |
| Other - Autres - Otros  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |     |  |                               |   |                          | 1 174        |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |     |  |                               |   |                          |              |
| <b>Total - Total - Total</b>  | <b>41 897</b>                |                             |   | <b>419</b>                      |                               |  |                                   |   | 184 294   |                             | 81  |  | 39 916                        |   |                          | 266 608      |
| Electricity - Électricité - Electrica   | 41 897                       |                             |   | 419                             |                               |  |                                   |   | 204   |                             |     |  |                               |   |                          | 42 520       |
| Heat - Chaleur - Calor  |                              |                             |   |                                 |                               |  |                                   |   | 184 090   |                             | 81  |  | 39 916                        |   |                          | 224 087      |
| Direct use - Utilisation directe - Uso directo  |                              |                             |   |                                 |                               |  |                                   |   |   |                             |     |  |                               |   |                          |              |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                             |   |                                 |                               |  |                                   |   |   |                             |     |  |                               |   |                          |              |
| Electricity - Électricité - Electrica (in/en GWh)   | 16 147                       |                             |   | 161                             |                               |  |                                   |   | 79  |                             |     |  |                               |   |                          | 16 387       |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                             |   |                                 |                               |  |                                   |   |   |                             |     |  |                               |   |                          |              |

## Zimbabwe

| 2022 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Eoliennes<br>Eólica | Solar - Solaire - Solar                               |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios   |                                 |                             | Pellets/briq.<br>Granules/briq.<br>Pellets/briq.      | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total          |
|---|------------------------------|-----------------------------|---|---------------------------------|--|-----------------------------------|---|---|---------------------------------|-----------------------------|---|-------------------------------|---|--------------------------|----------------|
|   |                              |                             | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás |   |                               |   |                          |                |
|   |                              |                             | Primary energy - Énergie primaire - Energía primaaria |                                 |  |                                   |   |   |                                 |                             | Primary energy - Énergie primaire - Energía primaaria |                               |   |                          |                |
| Imports - Importations - Importaciones  | 21 507                       |                             |   | 274                             |  |                                   |   |   |                                 | 116 319                     |   | 23                            |   |                          | 138 123        |
| Exports - Exportations - Exportaciones  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          | 3 512          |
| Stock - Stocks - Inventario (+/-)   |                              |                             |   | 274                             |  |                                   |   |   |                                 | 116 319                     |   | 23                            |   |                          | - 714          |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>21 507</b>                |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          | <b>140 921</b> |
| Differences - Ecarts - Diferencias  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |                |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                             |   |                                 |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                                 |                             |   |                               |   |                          |                |
| Electricity - Électricité - Electrica   | - 21 507                     |                             |   | - 274                           |  |                                   |   |   |                                 | - 738                       |   |                               |   |                          | 21 781         |
| CHP - Cogénération - Cogeneración   |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          | 406            |
| Heat - Chaleur - Calor  |                              |                             |   |                                 |  |                                   |   |   |                                 | - 835                       |   |                               |   |                          | - 331          |
| Charcoal - Charbon - Carbón   |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          | - 835          |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |                |
| Other - Autres - Otras  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |                |
| Own use - Consomm. propre - Uso propio  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |                |
| Distribution - Distribution - Distribución  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          | - 3 404        |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                             |   |                                 |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                                 |                             |   |                               |   |                          |                |
| Total - Total - Total   |                              |                             |   |                                 |  |                                   |   | 114 009   |                                 | 23                          |   |                               |   |                          | 130 698        |
| Industry - Industrie - Industria  |                              |                             |   |                                 |  |                                   |   | 6 515   |                                 |                             |   |                               |   |                          | 14 727         |
| Transport - Transport - Transporte  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |                |
| Commerce - Commerce - Comercial   |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          | 3 412          |
| Residential - Résidentiel - Residencial   |                              |                             |   |                                 |  |                                   |   | 107 494   |                                 | 18                          |   |                               |   |                          | 111 673        |
| Other - Autres - Otros  |                              |                             |   |                                 |  |                                   |   |   |                                 | 5                           |   |                               |   |                          | 887            |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                             |   |                                 |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                                 |                             |   |                               |   |                          |                |
| Total - Total - Total   | 16 155                       |                             |   | 206                             |  |                                   |   | 114 314   |                                 | 23                          |   |                               |   |                          | 130 698        |
| Electricity - Électricité - Electrica   | 16 155                       |                             |   | 206                             |  |                                   |   | 305   |                                 |                             |   |                               |   |                          | 16 666         |
| Heat - Chaleur - Calor  |                              |                             |   |                                 |  |                                   |   | 114 009   |                                 | 23                          |   |                               |   |                          | 114 032        |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                             |   |                                 |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                                 |                             |   |                               |   |                          |                |
| Electricity - Électricité - Electrica (in/en GWh)   | 5 974                        |                             |   | 76                              |  |                                   |   | 113   |                                 |                             |   |                               |   |                          | 6 163          |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |                |
| 2021 (in/en TJ)   | Hydro/Marine<br>Hydro/Marina | Wind<br>Eoliennes<br>Eólica | Solar - Solaire - Solar                               |                                 | Geothermal<br>Géothermique<br>Geotérmica | Other RE<br>Autres ER<br>Otras ER | Ren. waste<br>Déchets ren.<br>Residuos ren. | Primary biofuels - Biocombustibles primarios -<br>Biocombustibles primarios   |                                 |                             | Pellets/briq.<br>Granules/briq.<br>Pellets/briq.      | Charcoal<br>Charbon<br>Carbón | Electricity<br>Électricité<br>Eléctrica | Heat<br>Chaleur<br>Calor | Total          |
|   |                              |                             | Photovoltaic<br>Photovoltaïque<br>Fotovoltaica        | Thermal<br>Thermique<br>Térmica |  |                                   |   | Solids - Solides<br>- Sólidos   | Liquid - Liquides<br>- Líquidos | Biogas - Biogaz<br>- Biogás |   |                               |   |                          |                |
|   |                              |                             | Primary energy - Énergie primaire - Energía primaaria |                                 |  |                                   |   |   |                                 |                             | Primary energy - Énergie primaire - Energía primaaria |                               |   |                          |                |
| Production - Production - Generación  | 21 666                       |                             |   | 203                             |  |                                   |   | 115 586   |                                 | 25                          |   |                               |   |                          | 137 480        |
| Imports - Importations - Importaciones  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          | 5 143          |
| Exports - Exportations - Exportaciones  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          | - 1 156        |
| <b>Supply - Approvisionnement - Oferta</b>  | <b>21 666</b>                |                             |   | <b>203</b>                      |  |                                   |   | <b>115 586</b>  |                                 | <b>25</b>                   |   |                               |   |                          | <b>141 467</b> |
| Differences - Ecarts - Diferencias  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |                |
| <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>   |                              |                             |   |                                 |  |                                   |   | <b>Transformation and losses - Transformation et pertes - Transformación y pérdidas</b>                             |                                 |                             |   |                               |   |                          |                |
| Electricity - Électricité - Electrica   | - 21 666                     |                             |   | - 203                           |  |                                   |   | - 720   |                                 |                             |   |                               |   |                          | - 324          |
| CHP - Cogénération - Cogeneración   |                              |                             |   |                                 |  |                                   |   | - 828   |                                 |                             |   |                               |   |                          | - 453          |
| Heat - Chaleur - Calor  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |                |
| Charcoal - Charbon - Carbón   |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |                |
| Pellets/briq. - Granules/briq. - Pellets/briq.  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |                |
| Other - Autres - Otras  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |                |
| Own use - Consomm. propre - Uso propio  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |                |
| Distribution - Distribution - Distribución  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          | - 3 113        |
| <b>Final consumption - Consommation finale - Consumo final</b>  |                              |                             |   |                                 |  |                                   |   | <b>Final consumption - Consommation finale - Consumo final</b>  |                                 |                             |   |                               |   |                          |                |
| Total - Total - Total   |                              |                             |   |                                 |  |                                   |   | 113 319   |                                 | 25                          |   |                               |   |                          | 135 131        |
| Industry - Industrie - Industria  |                              |                             |   |                                 |  |                                   |   | 6 551   |                                 |                             |   |                               |   |                          | 16 688         |
| Transport - Transport - Transporte  |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |                |
| Commerce - Commerce - Comercial   |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          | 4 272          |
| Residential - Résidentiel - Residencial   |                              |                             |   |                                 |  |                                   |   | 106 768   |                                 | 18                          |   |                               |   |                          | 113 027        |
| Other - Autres - Otros  |                              |                             |   |                                 |  |                                   |   |   | 7                               |                             |   |                               |   |                          | 1144           |
| <b>Consumption (electricity/heat included) - Consommation (électricité/chaleur inclus) - Consumo (electricidad/calor incluida)</b>  |                              |                             |   |                                 |  |                                   |   | <b>Cons. (electricity/heat included) - Cons. (électricité/chaleur inclus) - Cons. (electricidad/calor incluida)</b> |                                 |                             |   |                               |   |                          |                |
| Total - Total - Total   | 20 833                       |                             |   | 195                             |  |                                   |   | 113 699   |                                 | 25                          |   |                               |   |                          | 135 131        |
| Electricity - Électricité - Electrica   | 20 833                       |                             |   | 195                             |  |                                   |   | 380   |                                 |                             |   |                               |   |                          | 21 408         |
| Heat - Chaleur - Calor  |                              |                             |   |                                 |  |                                   |   | 113 319   |                                 | 25                          |   |                               |   |                          | 113 723        |
| <b>Gross electricity and heat production - Production brute d'électricité et chaleur - Producción bruta de electricidad y calor</b> |                              |                             |   |                                 |  |                                   |   | <b>Electricity+heat production - Production d'électricité+chaleur - Producción de electricidad+calor</b>            |                                 |                             |   |                               |   |                          |                |
| Electricity - Électricité - Electrica (in/en GWh)   | 6 018                        |                             |   | 56                              |  |                                   |   | 110   |                                 |                             |   |                               |   |                          | 6 185          |
| Heat - Chaleur - Calor (in/en TJ)   |                              |                             |   |                                 |  |                                   |   |   |                                 |                             |   |                               |   |                          |                |



Public Renewable Energy Finance Flows

Flux Financiers Publics pour les Énergies Renouvelables

Flujos de Financiación Pública en Energías Renovables

**Total renewable energy**  
**Total énergies renouvelables**  
**Total energías renovables**

| (2021 USD million) | 2013             | 2014             | 2015             | 2016             | 2017             | 2018             | 2019             | 2020             | 2021             | 2022             |
|--------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| <b>World</b>       | <b>20 024.60</b> | <b>26 487.46</b> | <b>19 466.29</b> | <b>35 188.13</b> | <b>31 186.49</b> | <b>24 778.59</b> | <b>17 403.46</b> | <b>17 447.64</b> | <b>19 630.40</b> | <b>21 676.69</b> |
| <b>Africa</b>      | <b>4 929.53</b>  | <b>4 274.77</b>  | <b>4 416.24</b>  | <b>10 713.46</b> | <b>8 421.04</b>  | <b>5 859.80</b>  | <b>4 494.32</b>  | <b>3 362.58</b>  | <b>4 635.88</b>  | <b>5 503.71</b>  |
| Algeria            | 0.94             | 0.94             | 0.90             | 0.17             | 0.01             | 0.05             | 0.06             | 0.01             | 0.10             | 6.74             |
| Angola             |                  | 124.56           | 0.02             | 4 951.88         |                  | 0.13             | 0.06             | 0.07             | 0.00             | 82.84            |
| Benin              |                  | 14.27            | 18.83            | 1.37             | 288.57           | 2.06             | 0.04             | 1.87             | 44.32            | 103.94           |
| Botswana           |                  | 2.79             |                  | 0.01             | 0.02             | 0.01             |                  |                  | 41.67            | 4.78             |
| Burkina Faso       | 35.72            | 42.21            | 0.19             | 32.07            | 22.79            | 38.45            | 51.16            | 161.76           | 61.09            | 8.48             |
| Burundi            | 105.52           | 154.33           | 2.71             | 0.06             | 18.82            | 10.78            | 98.66            | 118.38           |                  |                  |
| Cabo Verde         | 17.27            | 7.88             | 3.47             | 8.76             | 0.12             |                  | 1.39             | 2.69             | 11.91            | 1.20             |
| Cameroon           | 0.02             | 12.23            | 104.49           | 85.28            | 191.62           | 1 112.10         | 8.14             | 47.36            | 7.35             | 7.19             |
| Cent Afr Rep       |                  | 0.01             |                  | 0.00             | 0.03             | 4.08             | 54.80            | 10.39            |                  | 81.64            |
| Chad               | 0.04             | 0.02             | 0.02             | 45.25            | 0.01             |                  | 21.18            | 11.94            | 11.87            | 199.59           |
| Comoros            | 0.02             | 0.14             | 1.10             | 0.01             | 12.23            | 0.16             | 18.27            | 17.97            | 0.04             | 28.81            |
| Congo DR           | 28.51            | 79.02            | 0.67             | 38.23            | 47.88            | 0.08             | 0.39             | 0.64             | 42.25            | 5.92             |
| Congo Rep          | 2.06             | 0.00             |                  | 0.09             |                  | 22.60            | 0.10             | 0.33             | 0.55             | 2.31             |
| Cote d'Ivoire      | 560.64           |                  | 0.91             | 38.23            | 42.79            | 63.70            | 350.04           | 76.03            | 325.06           | 350.33           |
| Djibouti           | 8.99             | 3.44             | 0.93             | 1.32             | 1.72             | 33.37            | 29.46            | 1.46             | 0.37             | 57.64            |
| Egypt              | 174.91           | 0.08             | 263.70           | 331.89           | 2 062.53         | 26.02            | 365.26           | 257.95           | 160.44           | 823.25           |
| Eq Guinea          | 3.74             |                  | 0.02             |                  |                  |                  |                  |                  |                  |                  |
| Eritrea            |                  |                  | 15.79            |                  | 93.82            | 0.03             |                  | 0.00             |                  | 0.26             |
| Eswatini           |                  |                  | 1.14             |                  |                  |                  | 14.53            | 0.09             | 0.22             | 0.06             |
| Ethiopia           | 329.60           | 212.58           | 61.58            | 59.22            | 401.76           | 52.59            | 63.19            | 4.04             | 412.11           | 1.55             |
| Gabon              | 0.02             | 0.01             | 14.33            | 44.58            | 0.13             | 3.41             |                  |                  | 48.73            |                  |
| Gambia             |                  |                  |                  | 27.93            | 137.23           | 27.64            |                  | 32.55            | 0.01             | 27.46            |
| Ghana              | 2.63             | 7.99             | 66.37            | 553.60           | 8.63             | 31.20            | 2.53             | 18.50            | 15.36            | 129.81           |
| Guinea             |                  | 0.07             | 1.31             | 154.11           | 0.14             | 1 282.76         | 22.83            | 0.01             | 0.01             | 0.03             |
| Guinea Bissau      | 0.21             | 0.22             |                  | 0.45             | 3.68             | 4.95             | 0.27             | 0.01             |                  |                  |
| Kenya              | 17.76            | 879.81           | 310.62           | 742.75           | 177.51           | 233.82           | 218.77           | 38.08            | 110.91           | 124.01           |
| Lesotho            | 0.10             | 10.13            | 0.04             | 0.00             |                  | 0.97             | 14.78            | 81.15            | 0.42             | 31.38            |
| Liberia            | 97.01            | 0.20             | 271.78           | 11.62            | 50.44            | 7.02             | 41.76            | 9.62             | 3.56             | 11.01            |
| Libya              |                  |                  |                  |                  |                  |                  |                  | 0.01             | 5.56             |                  |
| Madagascar         | 3.02             | 15.44            | 5.27             | 24.75            | 30.09            | 5.81             | 48.08            | 30.54            | 7.13             | 34.14            |
| Malawi             | 38.23            | 2.03             | 64.06            | 0.38             | 4.14             | 18.17            | 113.68           | 3.84             | 17.12            | 80.40            |
| Mali               | 197.40           | 2.30             | 10.34            | 67.15            | 29.43            | 23.33            | 49.26            | 0.55             | 9.57             | 14.92            |
| Mauritania         | 230.84           | 6.60             | 0.13             | 195.17           | 20.16            | 0.76             | 13.66            | 30.28            | 0.02             | 13.02            |
| Mauritius          | 64.75            | 57.94            | 10.38            | 32.19            | 0.38             |                  | 34.65            | 1.19             |                  |                  |
| Morocco            | 6.42             | 1 583.50         | 257.21           | 457.87           | 130.94           | 897.60           | 697.30           | 268.27           | 1.29             | 70.62            |
| Mozambique         | 42.58            | 10.15            | 5.86             | 34.96            | 88.46            | 10.38            | 205.54           | 205.05           | 83.69            | 121.14           |
| Namibia            |                  | 0.08             |                  | 12.74            | 40.90            | 46.19            | 0.02             | 0.00             | 0.18             | 9.00             |
| Niger              |                  | 44.82            |                  | 1.29             | 90.76            | 67.08            | 119.08           | 139.39           | 257.25           | 4.96             |
| Nigeria            | 1 106.74         | 27.05            | 51.35            | 66.36            | 162.69           | 108.52           | 192.74           | 279.18           | 34.60            | 11.65            |
| Reunion            | 11.66            | 12.09            | 1.79             |                  |                  |                  |                  |                  |                  |                  |
| Rwanda             | 105.61           | 53.12            |                  | 45.83            | 88.95            | 17.40            | 1.73             | 309.12           | 88.34            | 29.03            |
| Saint Helena       |                  |                  | 1.61             |                  |                  |                  |                  |                  |                  |                  |
| Sao Tome Prn       | 5.53             | 0.13             | 0.39             | 0.34             | 0.01             |                  |                  | 14.80            | 2.22             | 14.33            |
| Senegal            | 179.33           | 0.13             | 42.33            | 362.98           | 47.80            | 106.73           | 73.58            | 115.67           | 27.15            | 88.37            |
| Seychelles         |                  | 0.08             | 0.04             | 0.67             | 1.04             |                  |                  |                  |                  |                  |
| Sierra Leone       |                  | 9.19             |                  | 32.02            | 0.40             | 0.25             | 0.19             | 1.59             | 15.31            | 31.33            |
| Somalia            | 3.71             |                  | 0.36             | 0.89             | 0.02             | 3.71             | 23.57            | 0.22             | 150.01           | 14.50            |
| South Africa       | 670.59           | 221.70           | 850.50           | 813.47           | 1 760.07         | 520.03           | 180.18           | 343.41           | 333.02           | 1 210.09         |
| South Sudan        | 1.70             |                  | 0.08             | 0.03             | 0.34             | 0.32             | 0.11             | 0.06             | 0.21             | 0.01             |
| Sudan              | 3.65             | 0.43             | 0.03             | 0.05             | 0.01             | 2.71             | 226.60           | 19.72            | 0.29             | 0.02             |
| Tanzania           | 185.09           | 49.99            | 40.21            | 166.76           | 28.74            | 22.30            | 6.42             | 103.47           | 339.21           | 89.21            |
| Togo               | 0.17             | 71.36            | 5.32             | 0.05             | 0.00             | 19.46            | 1.26             | 18.02            | 33.00            | 3.92             |
| Tunisia            | 10.33            |                  | 9.89             | 50.96            | 5.24             | 20.88            | 125.40           | 22.36            | 20.52            | 42.89            |
| Uganda             | 45.60            | 36.03            | 1 666.91         | 206.90           | 102.48           | 572.71           | 74.89            | 23.02            | 4.22             | 566.03           |
| Zambia             | 207.72           | 258.44           | 85.98            | 120.88           | 1 937.16         | 58.40            | 87.96            | 13.77            | 11.33            | 23.82            |
| Zimbabwe           | 358.50           | 19.65            |                  | 0.04             | 6.45             | 0.01             | 0.27             | 0.06             | 0.01             | 3.75             |
| Unspecified Africa | 64.64            | 239.59           | 165.27           | 917.77           | 391.20           | 269.49           | 812.84           | 526.09           | 1 896.30         | 936.31           |

**Total renewable energy**  
**Total énergies renouvelables**  
**Total energías renovables**

| (2021 USD million)       | 2013            | 2014            | 2015            | 2016            | 2017            | 2018            | 2019            | 2020            | 2021            | 2022            |
|--------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| <b>Asia</b>              | <b>3 758.77</b> | <b>5 260.87</b> | <b>3 691.79</b> | <b>7 542.19</b> | <b>6 924.21</b> | <b>6 665.37</b> | <b>3 512.58</b> | <b>3 912.46</b> | <b>4 614.51</b> | <b>3 200.72</b> |
| Afghanistan              | 294.86          | 7.70            | 5.44            | 0.94            | 55.22           | 78.32           | 5.00            | 52.55           | 0.01            | 64.44           |
| Bangladesh               | 113.08          | 99.27           | 8.54            | 458.15          | 266.70          | 258.88          | 150.39          | 25.68           | 323.73          | 112.12          |
| Bhutan                   | 40.33           | 2.15            | 138.13          | 0.06            | 0.02            | 0.12            | 0.77            | 0.80            | 0.80            | 19.94           |
| Cambodia                 | 14.90           | 0.47            | 8.67            | 171.52          | 4.12            | 17.24           | 9.35            | 20.78           | 32.45           | 13.52           |
| China                    | 329.53          | 251.55          | 100.76          | 1 396.18        | 407.71          | 348.86          | 220.77          | 121.83          | 101.39          | 54.82           |
| India                    | 616.14          | 738.76          | 991.44          | 2 397.40        | 944.80          | 1 915.21        | 861.75          | 1 335.37        | 1 361.22        | 627.34          |
| Indonesia                | 394.17          | 910.16          | 417.05          | 370.10          | 330.52          | 1 144.51        | 236.62          | 443.11          | 371.26          | 355.80          |
| Kazakhstan               | 0.02            | 40.88           | 53.08           | 50.22           | 164.22          | 274.25          | 647.16          | 29.82           | 45.07           | 0.41            |
| Korea DPR                | 0.04            |                 | 0.00            | 0.37            | 2.64            | 0.72            | 1.12            | 0.00            |                 |                 |
| Kyrgyzstan               | 14.70           |                 | 0.03            | 41.85           | 1.36            | 0.08            | 94.38           | 0.07            |                 | 50.62           |
| Lao PDR                  | 482.63          | 1 884.87        | 86.75           | 730.58          | 2 323.56        | 438.39          | 2.53            | 0.50            | 0.04            | 155.97          |
| Malaysia                 | 0.07            | 0.17            | 0.22            | 1.32            | 0.05            | 0.05            | 0.02            | 4.13            | 0.00            | 0.04            |
| Maldives                 |                 | 46.52           | 6.80            | 89.20           | 0.02            | 6.25            | 4.40            | 23.45           | 27.29           | 0.69            |
| Mongolia                 | 0.16            | 0.01            | 0.89            | 211.30          | 92.26           | 127.18          | 11.61           | 113.77          | 2.32            | 0.87            |
| Myanmar                  | 63.94           | 10.76           | 63.21           | 4.34            | 132.53          | 24.73           | 44.48           | 68.33           | 11.65           | 18.25           |
| Nepal                    | 335.81          | 242.76          | 20.26           | 31.96           | 11.63           | 16.29           | 363.00          | 63.22           | 103.24          | 28.51           |
| Pakistan                 | 260.61          | 598.71          | 1 600.08        | 989.78          | 1 345.54        | 108.63          | 296.01          | 925.85          | 833.19          | 103.09          |
| Philippines              | 57.14           | 10.14           | 24.91           | 108.14          | 1.60            | 98.21           | 2.18            | 1.77            | 49.68           | 9.65            |
| Singapore                |                 |                 |                 |                 |                 |                 |                 |                 | 111.63          |                 |
| Sri Lanka                | 2.54            | 131.02          | 0.49            | 67.13           | 231.52          | 1 315.20        | 0.18            | 0.61            | 0.48            | 18.46           |
| Tajikistan               | 146.85          | 0.46            | 0.20            | 0.10            | 365.93          |                 | 116.46          | 49.99           | 53.72           | 47.88           |
| Thailand                 | 59.58           | 4.72            | 60.76           | 0.45            | 2.01            | 324.30          | 108.52          | 58.28           | 173.71          | 33.84           |
| Timor Leste              | 0.50            | 0.01            | 0.00            | 1.15            |                 |                 | 0.01            | 1.87            | 3.01            | 0.22            |
| Turkmenistan             | 6.48            | 0.05            | 0.13            | 0.09            | 0.07            | 0.00            | 0.04            |                 | 0.03            | 2.46            |
| Uzbekistan               | 214.91          |                 | 0.30            | 0.76            | 67.68           | 1.04            | 2.15            | 227.46          | 102.00          | 756.22          |
| Viet Nam                 | 100.27          | 260.56          | 6.84            | 330.26          | 29.68           | 115.87          | 264.67          | 183.07          | 447.45          | 186.38          |
| Unspecified Asia         | 209.49          | 18.31           | 96.77           | 88.79           | 142.80          | 29.53           | 65.72           | 157.00          | 308.99          | 537.22          |
| Unspecified C and S Asia |                 | 0.86            | 0.03            | 0.06            |                 | 21.51           | 3.32            | 3.14            | 150.13          | 1.98            |
| <b>C America + Carib</b> | <b>857.04</b>   | <b>1 146.94</b> | <b>1 909.86</b> | <b>1 465.08</b> | <b>1 683.42</b> | <b>608.46</b>   | <b>697.72</b>   | <b>1 205.11</b> | <b>457.61</b>   | <b>1 252.08</b> |
| Antigua Barb             | 2.82            |                 | 7.55            |                 | 21.39           |                 |                 | 6.96            |                 |                 |
| Bahamas                  |                 |                 |                 |                 | 0.02            | 0.12            | 0.62            | 202.03          | 2.40            |                 |
| Barbados                 |                 |                 | 0.09            | 9.70            |                 | 0.05            | 37.33           |                 |                 |                 |
| Belize                   |                 |                 | 0.02            | 1.80            | 0.01            | 17.53           | 0.29            | 0.02            | 3.00            | 0.04            |
| Costa Rica               | 134.41          | 160.44          | 893.97          | 189.74          | 251.99          | 30.54           | 0.75            | 319.20          | 15.56           | 65.00           |
| Cuba                     | 3.39            | 0.05            | 86.55           | 33.96           | 54.09           | 7.71            | 6.27            | 3.20            | 0.13            | 2.29            |
| Dominica                 | 8.42            | 1.86            |                 |                 | 14.51           | 1.80            | 9.79            |                 |                 |                 |
| Dominican Rep            | 0.02            | 0.47            | 0.53            | 89.68           | 90.52           | 0.40            | 46.75           | 1.03            | 105.74          | 91.25           |
| El Salvador              | 73.86           | 307.22          | 84.12           | 225.68          | 560.95          | 63.76           | 1.18            | 0.82            | 1.89            | 104.57          |
| Grenada                  |                 | 0.12            | 1.93            |                 | 0.79            |                 | 0.22            |                 | 3.35            |                 |
| Guatemala                | 19.50           | 25.93           | 0.02            | 15.82           | 0.91            | 12.65           | 62.48           | 0.26            | 13.06           | 4.86            |
| Haiti                    | 15.50           | 0.93            | 53.47           | 9.96            | 28.07           | 0.82            | 43.25           | 13.28           | 12.69           | 2.98            |
| Honduras                 | 385.62          | 193.36          | 422.45          | 81.63           | 269.59          | 109.57          | 1.05            | 87.90           | 17.70           | 403.13          |
| Jamaica                  |                 | 61.58           | 93.13           | 19.19           | 0.95            | 77.68           | 0.20            | 3.19            | 14.55           | 0.34            |
| Montserrat               | 0.64            | 1.09            | 2.28            | 9.08            | 0.16            |                 |                 |                 |                 |                 |
| Nicaragua                | 138.06          | 158.85          | 73.85           | 172.20          | 167.35          | 21.64           | 8.48            | 152.67          | 190.51          | 27.93           |
| Panama                   | 1.97            | 202.33          | 51.80           | 401.59          | 137.14          | 0.38            | 98.54           | 283.16          | 0.28            | 0.37            |
| St Lucia                 |                 | 1.02            | 0.01            |                 | 10.68           |                 |                 |                 | 6.83            | 0.63            |
| St Vincent Gren          | 0.01            | 0.03            |                 | 34.70           | 3.39            |                 |                 |                 | 0.27            | 0.36            |
| Trinidad Tobago          |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| Unspecified C Am Carib   | 72.82           | 31.65           | 138.12          | 170.36          | 70.91           | 263.81          | 380.52          | 131.13          | 69.93           | 548.33          |
| <b>Eurasia</b>           | <b>693.77</b>   | <b>812.27</b>   | <b>589.66</b>   | <b>1 833.15</b> | <b>477.06</b>   | <b>1 284.92</b> | <b>442.23</b>   | <b>420.36</b>   | <b>472.94</b>   | <b>559.08</b>   |
| Armenia                  | 28.34           | 10.22           | 25.47           | 132.54          | 1.73            | 30.33           | 60.70           | 27.96           | 52.85           | 1.19            |
| Azerbaijan               |                 | 0.02            | 85.03           | 0.01            | 0.02            |                 | 0.01            | 0.01            | 0.01            | 262.75          |
| Georgia                  | 10.79           | 214.60          | 7.48            | 99.10           | 33.29           | 50.79           | 27.00           | 0.71            | 5.13            | 42.20           |
| Türkiye                  | 654.63          | 587.43          | 471.67          | 1 601.50        | 442.03          | 1 203.81        | 354.52          | 391.69          | 414.96          | 252.95          |

**Total renewable energy**  
**Total énergies renouvelables**  
**Total energías renovables**

| (2021 USD million)   | 2013            | 2014            | 2015            | 2016            | 2017            | 2018            | 2019            | 2020            | 2021            | 2022            |
|----------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| <b>Europe</b>        | <b>4 414.67</b> | <b>6 439.37</b> | <b>4 497.75</b> | <b>5 540.57</b> | <b>6 586.64</b> | <b>6 544.60</b> | <b>4 440.53</b> | <b>4 398.21</b> | <b>6 062.05</b> | <b>5 211.70</b> |
| Albania              | 74.22           | 0.01            | 26.59           |                 | 0.13            |                 | 3.99            |                 | 57.96           | 38.22           |
| Austria              | 313.15          | 446.38          | 324.65          | 75.00           | 222.64          | 40.42           |                 | 206.19          |                 | 2.99            |
| Belarus              | 0.28            | 67.06           | 0.02            | 0.15            | 0.13            | 17.09           | 170.67          | 0.38            |                 |                 |
| Belgium              |                 |                 | 323.87          | 1517.44         |                 | 378.46          |                 |                 |                 | 60.03           |
| Bosnia Herzg         | 104.48          | 176.57          | 7.05            | 3.99            | 89.19           | 1.48            | 22.29           | 3.98            | 0.49            | 0.81            |
| Bulgaria             |                 |                 |                 |                 |                 | 83.83           |                 | 1.09            | 20.82           |                 |
| Croatia              | 25.43           | 27.78           |                 |                 |                 |                 | 12.29           |                 | 74.51           | 75.77           |
| Cyprus               |                 |                 |                 |                 |                 |                 | 15.64           |                 |                 |                 |
| Czechia              |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| Denmark              | 32.54           | 5.82            | 72.87           |                 |                 |                 |                 | 25.03           | 206.98          |                 |
| Estonia              |                 |                 | 52.84           |                 |                 |                 |                 | 10.91           |                 | 78.09           |
| Finland              | 79.99           | 23.20           | 171.64          | 239.75          |                 | 321.95          | 21.00           | 527.70          | 65.05           | 19.52           |
| France               | 786.74          | 315.71          | 614.92          | 555.57          | 1526.69         | 927.65          | 897.49          | 766.86          | 1 327.33        | 1136.06         |
| North Macedonia      | 20.69           |                 |                 | 0.01            | 5.18            | 8.88            | 0.00            | 23.31           | 11.96           | 138.46          |
| Germany              | 616.06          | 756.39          | 323.54          |                 |                 | 225.23          | 92.21           |                 | 250.02          | 705.70          |
| Greece               |                 |                 | 16.19           | 57.06           | 517.85          | 79.44           |                 | 169.27          |                 |                 |
| Hungary              |                 |                 | 25.99           |                 |                 | 11.26           |                 |                 |                 |                 |
| Iceland              |                 |                 | 37.86           | 288.85          |                 |                 |                 | 98.79           |                 |                 |
| Ireland              | 116.78          |                 |                 |                 |                 | 93.22           |                 |                 | 136.07          | 23.79           |
| Italy                |                 | 374.91          | 48.58           | 215.93          | 610.68          | 431.43          | 338.10          | 112.23          | 364.24          | 606.83          |
| Kosovo               | 0.30            | 29.12           | 27.23           | 0.00            | 0.74            | 0.61            | 93.67           | 0.02            | 0.07            | 67.74           |
| Lithuania            |                 |                 |                 |                 | 28.47           | 9.52            |                 | 81.98           | 38.14           |                 |
| Malta                |                 |                 |                 | 4.86            |                 |                 |                 |                 |                 |                 |
| Moldova Rep          | 25.20           | 0.30            | 0.55            | 0.26            | 0.24            | 0.10            | 0.25            | 0.09            | 0.35            | 0.91            |
| Montenegro           |                 | 30.25           | 91.81           | 5.14            | 0.01            | 0.03            | 96.78           | 18.35           | 0.05            | 89.40           |
| Netherlands          |                 | 969.50          |                 | 269.32          |                 |                 |                 | 45.38           | 591.55          | 68.12           |
| Norway               | 63.59           | 277.19          | 135.90          | 86.83           | 47.49           | 246.49          | 91.27           | 276.95          |                 |                 |
| Poland               | 124.33          | 125.37          | 128.24          |                 | 52.91           | 27.21           | 151.55          | 466.33          | 116.63          | 122.59          |
| Portugal             | 65.49           |                 |                 | 4.02            |                 | 704.43          | 242.20          | 137.64          | 47.31           | 189.72          |
| Romania              | 448.26          | 130.98          |                 |                 |                 | 16.80           |                 |                 | 40.00           |                 |
| Serbia               | 14.72           | 3.72            | 4.89            | 19.67           | 412.76          | 107.40          | 14.41           | 11.27           | 13.91           | 42.40           |
| Slovakia             | 79.16           |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| Spain                | 355.45          |                 | 138.61          | 64.43           | 607.48          | 826.41          | 1175.35         | 1 077.52        | 1 428.50        | 1 546.04        |
| Sweden               | 87.60           | 278.37          | 13.65           | 153.47          | 633.14          |                 | 119.33          |                 | 27.20           | 48.95           |
| Switzerland          |                 |                 |                 |                 |                 |                 |                 |                 | 177.75          |                 |
| UK                   | 928.52          | 2 310.54        | 1897.70         | 1522.91         | 1 274.38        | 1 158.77        |                 |                 | 755.09          |                 |
| Ukraine              | 51.48           | 89.49           | 12.56           | 268.64          | 82.27           | 679.14          | 520.68          | 44.65           | 284.82          | 66.21           |
| EU (27)              |                 |                 |                 | 179.87          | 472.35          | 125.11          | 374.81          | 282.31          | 13.97           | 56.63           |
| Unspecified Europe   | 0.20            | 0.73            |                 | 7.41            | 1.92            | 6.57            | 2.21            | 9.99            | 11.28           | 26.71           |
| <b>Middle East</b>   | <b>165.17</b>   | <b>937.54</b>   | <b>557.34</b>   | <b>930.60</b>   | <b>589.29</b>   | <b>266.32</b>   | <b>133.58</b>   | <b>213.38</b>   | <b>210.18</b>   | <b>218.79</b>   |
| Iran IR              |                 | 0.09            | 0.20            | 0.08            | 0.32            | 3.92            |                 | 0.01            | 0.00            | 0.06            |
| Iraq                 |                 | 0.02            |                 | 285.29          | 122.23          |                 |                 | 0.53            | 0.98            | 4.21            |
| Israel               |                 | 484.24          | 182.66          |                 |                 |                 |                 |                 |                 |                 |
| Jordan               | 155.70          | 170.17          | 267.90          | 603.89          | 437.18          | 129.74          | 81.42           | 39.47           | 24.71           | 21.16           |
| Lebanon              | 0.02            | 2.52            | 40.25           | 25.89           | 0.04            | 6.81            | 0.34            | 0.18            | 2.20            | 25.56           |
| Palestine            | 1.07            | 2.17            | 25.16           | 3.15            | 6.87            | 49.30           | 18.57           | 12.94           | 25.27           | 21.96           |
| Qatar                |                 |                 |                 |                 |                 |                 | 159.09          |                 |                 |                 |
| Saudi Arabia         |                 |                 |                 |                 |                 |                 |                 | 140.50          |                 |                 |
| Syrian AR            |                 |                 |                 |                 | 0.06            |                 |                 |                 | 0.61            |                 |
| Yemen                | 0.72            | 20.41           |                 |                 | 0.01            | 61.05           | 1.31            | 1.14            | 8.29            | 134.60          |
| Other Mid East       | 7.66            | 257.91          | 41.16           | 12.30           | 22.65           | 15.43           | 31.94           |                 | 8.23            | 10.63           |
| <b>North America</b> | <b>86.43</b>    | <b>433.36</b>   | <b>214.22</b>   | <b>503.86</b>   | <b>549.75</b>   | <b>324.87</b>   | <b>430.54</b>   | <b>601.33</b>   | <b>334.37</b>   | <b>1.48</b>     |
| Mexico               | 51.46           | 433.36          | 214.22          | 503.86          | 549.75          | 324.87          | 430.54          | 601.33          | 334.37          | 1.48            |
| USA                  | 34.97           |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| <b>Oceania</b>       | <b>68.67</b>    | <b>114.98</b>   | <b>98.16</b>    | <b>55.62</b>    | <b>347.79</b>   | <b>84.10</b>    | <b>145.67</b>   | <b>21.79</b>    | <b>49.12</b>    | <b>98.93</b>    |
| Australia            |                 |                 |                 |                 |                 |                 |                 | 36.13           |                 |                 |
| Cook Is              | 8.32            | 16.67           | 19.84           | 4.87            |                 |                 |                 |                 |                 |                 |
| Fiji                 | 5.14            | 7.27            | 1.80            | 0.21            | 0.05            | 5.96            | 0.13            | 4.33            | 0.51            | 0.03            |
| Kiribati             | 5.13            | 4.74            |                 | 0.00            |                 | 0.93            |                 | 13.29           |                 | 0.06            |
| Marshall Is          | 1.41            | 0.01            | 4.53            | 0.26            | 44.55           |                 |                 |                 | 2.70            | 0.03            |
| Micronesia           | 6.27            | 0.88            | 4.45            | 0.01            | 1.33            | 10.96           | 29.89           | 0.02            | 0.12            | 2.64            |
| Nauru                |                 | 0.01            | 9.73            | 3.25            | 2.99            |                 | 24.09           | 0.15            | 0.05            |                 |
| New Caledon          |                 |                 |                 |                 | 64.87           |                 |                 |                 |                 |                 |
| Niue                 | 0.40            |                 | 0.01            | 0.28            | 3.97            |                 | 0.11            |                 |                 | 0.04            |
| Palau                | 0.01            |                 | 5.68            | 0.01            |                 |                 | 1.30            | 0.14            | 0.06            | 41.50           |
| Papua N Guin         | 7.03            | 0.00            | 9.42            | 35.44           | 0.93            | 0.15            | 0.14            | 0.10            | 0.17            | 11.03           |
| Samoa                | 5.14            | 35.90           | 0.01            | 0.00            | 2.24            |                 |                 |                 | 0.02            | 0.03            |
| Solomon Is           | 0.01            | 14.37           | 7.58            | 7.79            | 177.82          | 22.77           | 50.82           | 1.09            | 1.76            | 0.02            |
| Tokelau              |                 |                 |                 |                 | 4.46            |                 |                 |                 |                 |                 |
| Tonga                | 17.68           | 2.82            | 15.59           | 3.28            | 20.49           | 40.54           | 2.81            | 2.41            | 2.36            | 3.12            |
| Tuvalu               | 5.20            | 22.79           | 9.38            |                 |                 | 0.43            | 6.75            | 0.05            | 3.00            | 0.09            |
| Vanuatu              | 5.19            | 9.51            | 7.95            |                 | 19.57           | 1.96            | 1.03            | 0.06            | 2.01            | 36.61           |
| Unspecified Oceania  | 1.75            |                 | 2.19            | 0.24            | 8.97            | 0.39            | 24.13           | 0.14            | 0.23            | 3.73            |

**Total renewable energy**  
**Total énergies renouvelables**  
**Total energías renovables**

| (2021 USD million)           | 2013            | 2014            | 2015            | 2016            | 2017            | 2018            | 2019            | 2020            | 2021            | 2022            |
|------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| <b>South America</b>         | <b>4 842.23</b> | <b>6 935.38</b> | <b>3 203.91</b> | <b>5 482.42</b> | <b>4 879.47</b> | <b>2 302.24</b> | <b>2 449.58</b> | <b>2 724.00</b> | <b>2 182.70</b> | <b>3 927.49</b> |
| Argentina                    | 52.22           | 2 783.41        | 124.43          | 273.90          | 561.92          | 427.78          | 506.21          | 93.01           | 2.90            | 88.82           |
| Bolivia                      | 81.65           | 39.61           | 2.07            | 1 264.51        | 647.85          | 89.60           | 0.95            | 3.35            | 0.26            | 3.70            |
| Brazil                       | 2 635.36        | 2 413.34        | 2 572.98        | 1 685.79        | 2 985.07        | 1 373.95        | 1 667.59        | 2 041.75        | 1 931.43        | 2 648.75        |
| Chile                        | 1 159.49        | 1 190.21        | 124.12          | 328.62          | 228.89          | 203.51          | 158.02          | 166.95          | 1.02            | 38.30           |
| Colombia                     | 0.32            | 58.54           | 24.85           | 1 592.79        | 24.63           | 25.80           | 53.39           | 64.01           | 232.95          | 247.47          |
| Ecuador                      | 371.92          | 6.68            | 34.07           | 147.06          | 40.66           | 0.94            | 65.04           | 74.62           | 6.03            | 95.18           |
| Fr Guiana                    |                 |                 |                 |                 |                 |                 |                 |                 | 29.57           |                 |
| Guyana                       | 0.02            | 0.02            | 1.60            |                 |                 | 32.79           | 16.02           | 1.64            | 3.02            | 86.27           |
| Paraguay                     | 0.09            |                 |                 | 0.40            |                 | 142.93          | 0.78            | 426.24          | 0.09            | 103.53          |
| Peru                         | 313.22          | 203.24          | 92.99           | 112.86          | 191.55          | 75.47           | 1.19            | 25.80           | 106.52          | 420.47          |
| Suriname                     | 0.02            | 0.00            |                 |                 | 0.01            | 0.31            | 24.63           | 3.19            | 0.55            | 0.34            |
| Uruguay                      | 227.93          | 235.56          | 226.39          | 76.49           | 20.01           |                 | 0.22            |                 |                 |                 |
| Venezuela                    | 0.01            | 4.76            | 0.39            |                 |                 | 0.43            |                 |                 | 0.04            |                 |
| <b>Unspecified countries</b> | <b>208.32</b>   | <b>131.99</b>   | <b>232.53</b>   | <b>1 113.31</b> | <b>727.75</b>   | <b>520.71</b>   | <b>656.55</b>   | <b>588.44</b>   | <b>557.81</b>   | <b>1 634.56</b> |
| <b>Multilateral</b>          |                 |                 | <b>54.83</b>    | <b>7.87</b>     | <b>0.07</b>     | <b>317.21</b>   | <b>0.17</b>     |                 | <b>53.22</b>    | <b>68.15</b>    |

The total figures include hydropower, wind energy, solar energy, bioenergy, geothermal energy, marine energy, and multiple technologies.

**Hydropower**  
**Hydroélectricité**  
**Hidroeléctrica**

| (2021 USD million)       | 2013            | 2014            | 2015            | 2016             | 2017            | 2018            | 2019            | 2020            | 2021            | 2022            |
|--------------------------|-----------------|-----------------|-----------------|------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| <b>World</b>             | <b>7 157.62</b> | <b>8 861.34</b> | <b>4 857.01</b> | <b>10 643.43</b> | <b>8 920.88</b> | <b>6 791.35</b> | <b>1 713.15</b> | <b>2 768.44</b> | <b>2 122.78</b> | <b>1 061.09</b> |
| <b>Africa</b>            | <b>3132.434</b> | <b>713.6127</b> | <b>2136.283</b> | <b>5685.187</b>  | <b>3957.092</b> | <b>2958.557</b> | <b>679.094</b>  | <b>864.601</b>  | <b>448.3157</b> | <b>377.62</b>   |
| Angola                   |                 | 124.56          |                 | 4 868.98         |                 |                 |                 |                 |                 | 41.41           |
| Benin                    |                 |                 | 0.12            | 1.02             | 2.22            | 0.93            |                 |                 |                 |                 |
| Burkina Faso             |                 |                 |                 |                  | 2.52            | 1.67            |                 |                 |                 |                 |
| Burundi                  | 105.52          | 114.05          |                 |                  | 18.74           |                 | 86.06           |                 |                 |                 |
| Cameroon                 |                 | 8.17            |                 | 0.53             | 191.60          | 1 066.84        | 6.30            | 4.65            | 6.74            | 6.81            |
| Cent Afr Rep             |                 |                 |                 |                  |                 | 1.07            |                 | 4.12            |                 |                 |
| Comoros                  |                 |                 |                 |                  |                 | 12.20           |                 |                 |                 |                 |
| Congo DR                 | 27.59           | 77.96           |                 | 26.24            | 42.74           |                 |                 |                 | 4.93            |                 |
| Congo Rep                | 2.06            |                 |                 |                  |                 |                 |                 |                 |                 |                 |
| Cote d'Ivoire            | 560.64          |                 | 0.90            | 31.55            | 30.24           |                 | 325.42          |                 | 46.06           |                 |
| Djibouti                 |                 |                 |                 |                  |                 |                 |                 |                 |                 | 0.57            |
| Egypt                    | 25.66           |                 |                 |                  |                 |                 | 0.00            |                 |                 | 29.09           |
| Ethiopia                 |                 |                 | 11.66           |                  | 0.01            |                 | 0.00            | 1.39            |                 |                 |
| Gabon                    |                 |                 |                 |                  |                 | 3.39            |                 |                 | 48.73           |                 |
| Gambia                   |                 |                 |                 |                  |                 | 0.09            |                 |                 |                 |                 |
| Ghana                    |                 | 0.03            | 63.67           | 0.83             | 0.83            | 3.53            |                 |                 | 15.31           | 0.02            |
| Guinea                   |                 |                 | 1.27            |                  |                 | 1 282.25        |                 |                 |                 |                 |
| Guinea Bissau            |                 |                 |                 | 0.45             |                 |                 |                 |                 |                 |                 |
| Kenya                    |                 |                 | 49.32           | 0.11             | 1.23            |                 | 24.55           |                 | 0.23            | 0.06            |
| Lesotho                  |                 | 6.46            |                 |                  |                 |                 |                 | 1.70            |                 | 12.92           |
| Liberia                  |                 |                 |                 | 215.61           | 2.15            | 43.86           | 6.84            | 3.53            | 0.02            |                 |
| Madagascar               |                 |                 |                 |                  | 0.74            |                 | 0.47            | 45.65           | 1.51            | 8.01            |
| Malawi                   | 36.95           | 0.96            | 63.37           |                  | 3.37            | 17.47           | 7.48            | 0.62            | 1.34            | 47.10           |
| Mali                     | 162.59          |                 |                 |                  |                 | 11.71           |                 |                 |                 |                 |
| Mauritania               |                 |                 |                 |                  | 0.30            |                 |                 |                 |                 |                 |
| Morocco                  |                 |                 |                 |                  |                 |                 |                 | 181.09          |                 |                 |
| Mozambique               |                 |                 |                 | 0.35             |                 |                 | 9.20            |                 |                 | 115.55          |
| Niger                    |                 | 44.82           |                 |                  |                 |                 | 73.08           | 111.65          |                 |                 |
| Nigeria                  | 1106.50         |                 |                 |                  | 0.09            |                 |                 | 242.63          |                 |                 |
| Reunion                  |                 |                 | 1.79            |                  |                 |                 |                 |                 |                 |                 |
| Rwanda                   | 105.55          | 39.90           |                 | 28.32            | 5.85            |                 |                 | 278.87          | 1.06            | 19.20           |
| Sao Tome Prn             | 5.50            |                 |                 |                  |                 |                 |                 | 14.80           | 0.02            |                 |
| Senegal                  | 158.92          |                 |                 |                  | 1.49            | 1.12            |                 |                 | 0.10            | 0.00            |
| Sierra Leone             |                 |                 |                 | 0.24             | 0.40            | 0.24            |                 |                 |                 |                 |
| South Africa             |                 |                 |                 | 591.42           | 1 730.98        |                 |                 |                 |                 |                 |
| South Sudan              | 1.70            |                 |                 |                  |                 |                 |                 |                 |                 |                 |
| Tanzania                 | 111.42          | 39.39           | 0.11            | 0.11             | 0.77            | 0.32            | 0.66            |                 | 122.18          |                 |
| Togo                     |                 |                 |                 |                  |                 | 18.76           |                 |                 |                 |                 |
| Uganda                   | 0.29            |                 | 1 647.81        | 98.78            | 99.80           | 525.32          | 46.31           | 0.52            | 0.52            | 0.09            |
| Zambia                   | 207.68          | 230.95          | 80.05           | 0.11             | 1 766.27        |                 | 49.78           | 13.28           |                 | 16.97           |
| Zimbabwe                 | 358.25          |                 |                 |                  |                 |                 |                 |                 | 0.00            | 0.17            |
| Unspecified Africa       |                 | 26.38           | 0.25            | 33.32            | 1.87            | 16.53           | 1.08            |                 | 199.57          | 79.64           |
| <b>Asia</b>              | <b>1 670.40</b> | <b>2 893.55</b> | <b>1 673.88</b> | <b>1 709.47</b>  | <b>4 091.79</b> | <b>2 392.68</b> | <b>656.52</b>   | <b>1 282.41</b> | <b>1 049.67</b> | <b>519.26</b>   |
| Afghanistan              |                 | 204.78          |                 |                  |                 |                 | 0.02            |                 |                 |                 |
| Bangladesh               |                 |                 |                 |                  |                 |                 | 0.00            |                 |                 |                 |
| Bhutan                   | 40.30           | 1.60            | 137.94          |                  |                 | 0.12            | 0.74            |                 |                 |                 |
| Cambodia                 | 11.95           |                 | 2.59            |                  |                 |                 |                 |                 |                 |                 |
| China                    | 104.50          | 12.51           |                 | 0.03             | 0.26            | 80.86           |                 |                 |                 |                 |
| India                    | 1.05            |                 |                 | 101.42           | 26.23           | 320.50          | 45.54           | 245.78          | 1.30            | 92.11           |
| Indonesia                | 131.26          | 157.19          |                 |                  | 114.09          | 431.39          |                 | 45.65           | 2.42            | 303.06          |
| Kyrgyzstan               | 14.36           |                 | 0.03            | 41.84            | 1.23            |                 | 94.37           | 0.07            |                 | 9.64            |
| Lao PDR                  | 482.30          | 1 884.36        | 86.37           | 710.38           | 2 316.89        | 437.13          | 0.11            | 0.45            |                 |                 |
| Maldives                 |                 |                 |                 | 89.19            |                 |                 |                 |                 |                 |                 |
| Mongolia                 |                 |                 |                 | 0.43             |                 |                 |                 |                 |                 | 0.05            |
| Myanmar                  | 63.86           | 9.34            | 0.66            | 2.21             | 107.29          | 0.58            | 0.81            | 43.11           | 7.34            |                 |
| Nepal                    | 334.10          | 160.98          | 15.03           | 0.30             | 1.50            | 13.77           | 357.74          | 42.04           | 74.87           | 14.01           |
| Pakistan                 | 27.59           | 402.83          | 1 430.15        | 761.95           | 1 090.57        | 0.24            | 62.05           | 651.15          | 681.84          | 69.60           |
| Philippines              | 9.94            | 3.21            | 0.27            | 0.35             |                 |                 |                 |                 | 9.36            |                 |
| Sri Lanka                |                 | 116.21          |                 |                  |                 | 1 091.27        |                 |                 |                 |                 |
| Tajikistan               | 139.73          | 0.41            | 0.20            | 0.03             | 362.63          |                 | 93.00           | 45.11           | 53.57           | 30.24           |
| Thailand                 | 0.07            |                 |                 |                  |                 |                 |                 |                 |                 |                 |
| Uzbekistan               | 102.34          |                 |                 | 0.57             | 67.51           |                 | 2.13            | 130.98          | 0.06            |                 |
| Viet Nam                 | 0.77            | 139.68          |                 |                  | 2.53            |                 | 0.00            | 48.34           | 218.62          |                 |
| Unspecified Asia         | 1.48            | 5.22            | 0.63            | 0.78             | 1.07            | 16.80           |                 | 29.74           | 0.09            | 0.51            |
| Unspecified C and S Asia |                 |                 |                 |                  |                 |                 |                 | 0.20            | 0.20            | 0.05            |
| <b>C America + Carib</b> | <b>240.37</b>   | <b>507.57</b>   | <b>226.51</b>   | <b>76.03</b>     | <b>197.17</b>   | <b>117.69</b>   | <b>0.72</b>     | <b>19.32</b>    | <b>1.64</b>     | <b>108.84</b>   |
| Costa Rica               |                 | 102.34          |                 |                  | 33.23           |                 | 0.03            |                 |                 |                 |
| Cuba                     |                 |                 |                 |                  |                 |                 | 0.15            |                 |                 |                 |
| Dominican Rep            | 0.00            | 0.12            |                 |                  |                 |                 |                 |                 |                 |                 |
| El Salvador              |                 | 307.21          | 18.71           |                  | 197.17          |                 |                 |                 |                 | 103.53          |
| Guatemala                | 0.55            | 25.52           |                 |                  |                 |                 | 0.00            | 0.18            |                 | 3.75            |
| Haiti                    | 14.00           | 0.08            | 33.79           |                  |                 | 0.04            |                 |                 | 0.99            |                 |
| Honduras                 |                 | 15.12           | 174.02          |                  |                 |                 | 0.12            | 19.14           | 0.65            |                 |
| Jamaica                  |                 |                 |                 |                  |                 |                 | 0.00            |                 |                 |                 |
| Nicaragua                |                 | 123.48          | 154.60          |                  | 42.79           |                 | 117.66          | 0.42            |                 | 1.55            |
| Unspecified C Am + Carib |                 |                 | 4.92            |                  |                 |                 |                 |                 |                 |                 |

# Hydropower

## Hydroélectricité

## Hidroeléctrica

| (2021 USD million)           | 2013            | 2014            | 2015          | 2016            | 2017          | 2018          | 2019          | 2020          | 2021          | 2022         |
|------------------------------|-----------------|-----------------|---------------|-----------------|---------------|---------------|---------------|---------------|---------------|--------------|
| <b>Eurasia</b>               | <b>37.15</b>    | <b>225.48</b>   | <b>107.70</b> | <b>78.16</b>    | <b>30.11</b>  | <b>11.23</b>  | <b>0.03</b>   | <b>9.54</b>   | <b>3.00</b>   | <b>2.26</b>  |
| Armenia                      | 28.34           | 10.21           | 15.32         | 77.60           | 1.55          |               |               |               |               |              |
| Azerbaijan                   |                 |                 | 85.02         |                 |               |               |               |               |               |              |
| Georgia                      | 8.77            | 214.51          | 7.36          | 0.56            | 28.56         | 11.23         | 0.03          |               | 3.00          | 2.26         |
| Türkiye                      | 0.03            | 0.77            |               | 0.01            |               |               |               | 9.54          |               |              |
| <b>Europe</b>                | <b>258.35</b>   | <b>937.25</b>   | <b>356.80</b> | <b>676.26</b>   | <b>178.09</b> | <b>878.22</b> | <b>241.81</b> | <b>460.73</b> | <b>286.44</b> | <b>3.98</b>  |
| Albania                      | 73.22           |                 | 26.59         |                 |               |               |               |               | 47.30         | 2.24         |
| Austria                      |                 | 368.33          | 194.32        |                 |               |               |               |               |               |              |
| Bosnia Herzg                 |                 | 40.62           |               | 0.03            | 0.01          |               | 18.63         |               | 204.83        |              |
| Finland                      | 21.69           |                 |               | 289.08          |               |               |               |               |               |              |
| France                       |                 |                 |               |                 |               |               |               |               |               |              |
| North Macedonia              | 20.69           |                 |               |                 |               |               |               |               |               | 1.74         |
| Italy                        |                 | 328.87          |               | 32.12           | 101.78        |               |               |               | 150.64        |              |
| Kosovo                       |                 |                 |               | 0.73            | 0.60          |               |               |               | 18.08         |              |
| Montenegro                   |                 |                 |               |                 |               |               |               |               |               |              |
| Norway                       | 63.59           | 199.43          | 135.90        | 86.83           | 47.49         | 246.49        | 38.76         | 168.97        |               |              |
| Portugal                     |                 |                 |               |                 | 625.63        | 184.42        | 58.99         |               |               |              |
| Serbia                       |                 |                 |               | 11.41           | 0.01          |               |               |               |               |              |
| Slovakia                     | 79.16           |                 |               | 256.78          | 28.08         |               | 5.51          |               | 88.50         |              |
| Ukraine                      |                 |                 |               |                 |               |               |               |               |               |              |
| Unspecified Europe           |                 |                 |               |                 |               |               |               | 9.85          |               |              |
| <b>Middle East</b>           | <b>2.41</b>     | <b>2.39</b>     |               |                 | <b>122.23</b> |               |               |               |               |              |
| Iraq                         |                 |                 |               |                 | 122.23        |               |               |               |               |              |
| Lebanon                      | 2.41            | 2.39            |               |                 |               |               |               |               |               |              |
| <b>North America</b>         |                 |                 |               |                 |               | <b>4.92</b>   |               |               | <b>237.70</b> |              |
| Mexico                       |                 |                 |               |                 |               | 4.92          |               |               | 237.70        |              |
| <b>Oceania</b>               | <b>6.70</b>     | <b>35.29</b>    | <b>13.78</b>  |                 | <b>175.40</b> | <b>5.20</b>   | <b>51.47</b>  | <b>0.64</b>   | <b>1.11</b>   | <b>42.35</b> |
| Fiji                         |                 | 2.55            |               |                 |               |               | 0.00          |               | 0.50          |              |
| Micronesia                   |                 |                 |               |                 |               |               |               |               | 1.45          |              |
| Nauru                        |                 |                 | 5.65          |                 |               |               |               |               |               |              |
| Papua N Guin                 | 6.70            |                 |               |                 |               |               | 0.05          | 0.03          | 0.02          | 4.68         |
| Samoa                        |                 | 18.59           |               |                 |               |               |               |               |               |              |
| Solomon Is                   | 0.00            | 14.15           | 0.20          |                 | 169.82        | 5.14          | 50.38         | 0.61          |               |              |
| Vanuatu                      |                 |                 | 7.94          |                 | 5.59          | 0.06          | 0.05          |               | 0.59          | 36.09        |
| Unspecified Oceania          |                 |                 |               |                 |               | 0.99          |               |               |               | 0.13         |
| <b>South America</b>         | <b>1 811.97</b> | <b>3 546.19</b> | <b>339.64</b> | <b>2 418.29</b> | <b>168.89</b> | <b>419.43</b> | <b>79.43</b>  | <b>99.53</b>  | <b>0.59</b>   | <b>3.34</b>  |
| Argentina                    |                 | 2 780.37        |               |                 | 17.12         |               |               |               |               |              |
| Bolivia                      | 73.23           | 0.55            | 1.22          | 1182.83         |               |               |               |               | 0.01          |              |
| Brazil                       | 1 034.44        | 356.82          | 244.45        | 750.47          | 57.11         | 276.07        | 61.87         | 45.81         |               | 2.02         |
| Chile                        | 353.92          | 281.03          |               |                 |               |               |               |               |               |              |
| Colombia                     |                 | 57.35           |               | 456.46          |               |               | 0.00          | 53.16         |               |              |
| Ecuador                      | 350.38          |                 | 24.94         | 11.41           | 29.44         |               |               |               |               |              |
| Guyana                       |                 |                 |               |                 |               | 16.02         |               |               |               |              |
| Paraguay                     |                 |                 |               |                 |               | 142.93        | 0.49          |               | 0.04          |              |
| Peru                         |                 | 65.31           | 68.64         |                 | 82.34         |               | 1.05          | 0.55          | 0.52          | 1.32         |
| Venezuela                    |                 | 4.75            | 0.39          |                 |               | 0.43          |               |               | 0.04          |              |
| <b>Unspecified countries</b> | <b>0.26</b>     |                 | <b>0.03</b>   | <b>0.03</b>     | <b>0.11</b>   | <b>3.43</b>   | <b>4.08</b>   | <b>31.68</b>  | <b>94.31</b>  | <b>3.44</b>  |

**Wind energy**  
**Énergie éolienne**  
**Energía eólica**

| (2021 USD million)       | 2013            | 2014            | 2015            | 2016            | 2017            | 2018            | 2019            | 2020            | 2021            | 2022            |
|--------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| <b>World</b>             | <b>4 981.67</b> | <b>7 936.82</b> | <b>4 809.76</b> | <b>5 015.55</b> | <b>6 529.96</b> | <b>3 250.23</b> | <b>3 445.23</b> | <b>2 398.13</b> | <b>4 474.16</b> | <b>3 705.56</b> |
| <b>Africa</b>            | <b>495.4356</b> | <b>770.6595</b> | <b>98.08631</b> | <b>629.2625</b> | <b>497.4673</b> | <b>75.11589</b> | <b>576.3822</b> | <b>228.5421</b> | <b>101.9448</b> | <b>163.3399</b> |
| Algeria                  |                 |                 |                 |                 |                 |                 |                 |                 |                 | 0.10            |
| Angola                   |                 |                 |                 |                 | 19.97           |                 |                 |                 |                 |                 |
| Cabo Verde               |                 |                 |                 |                 | 8.24            |                 |                 |                 |                 |                 |
| Cameroon                 |                 |                 |                 |                 | 0.06            |                 |                 |                 |                 |                 |
| Comoros                  |                 |                 |                 |                 |                 |                 |                 |                 |                 | 0.01            |
| Djibouti                 |                 |                 |                 |                 |                 | 0.11            | 24.07           |                 |                 | 17.72           |
| Egypt                    |                 |                 |                 | 95.75           | 0.01            | 197.55          |                 | 120.87          | 138.84          | 74.79           |
| Ethiopia                 | 328.87          |                 |                 |                 | 4.84            | 254.98          | 1.45            | 58.49           |                 | 0.08            |
| Ghana                    |                 |                 |                 |                 | 1.04            |                 |                 |                 |                 |                 |
| Kenya                    | 5.12            | 765.56          |                 | 2.27            | 16.70           | 15.21           | 53.88           | 0.04            |                 | 0.04            |
| Madagascar               |                 |                 |                 |                 |                 | 0.00            | 0.00            | 0.00            | 0.00            | 0.27            |
| Malawi                   |                 |                 |                 |                 |                 |                 |                 | 3.28            |                 | 0.00            |
| Mali                     |                 |                 |                 |                 |                 |                 |                 |                 |                 | 0.30            |
| Mauritania               | 50.45           |                 | 5.10            |                 | 132.18          | 20.16           |                 |                 |                 |                 |
| Morocco                  | 0.83            |                 |                 |                 | 170.56          |                 |                 | 298.56          | 85.31           |                 |
| Mozambique               | 10.23           |                 |                 |                 |                 | 1.14            |                 | 9.20            | 2.78            | 53.04           |
| Namibia                  |                 |                 |                 |                 |                 | 8.40            |                 |                 |                 |                 |
| Nigeria                  |                 |                 |                 |                 |                 |                 | 0.05            |                 |                 |                 |
| Senegal                  |                 |                 |                 |                 |                 |                 | 14.06           |                 |                 |                 |
| Somalia                  |                 |                 |                 |                 |                 |                 |                 | 0.07            |                 |                 |
| South Africa             | 91.61           |                 |                 | 0.07            |                 |                 |                 |                 | 0.20            | 46.92           |
| Sudan                    | 3.62            |                 |                 |                 |                 |                 |                 |                 |                 | 17.42           |
| Tanzania                 | 4.09            |                 |                 |                 |                 |                 |                 | 0.33            | 0.97            |                 |
| Tunisia                  | 0.62            |                 |                 |                 |                 |                 |                 |                 | 0.42            |                 |
| Zambia                   |                 |                 |                 |                 |                 | 1.16            |                 |                 |                 |                 |
| Unspecified Africa       |                 |                 |                 | 0.07            |                 |                 | 3.58            | 61.47           |                 | 30.31           |
| <b>Asia</b>              | <b>378.27</b>   | <b>341.69</b>   | <b>363.60</b>   | <b>388.31</b>   | <b>635.65</b>   | <b>414.45</b>   | <b>415.20</b>   | <b>164.48</b>   | <b>262.32</b>   | <b>822.07</b>   |
| Bangladesh               |                 |                 |                 |                 |                 | 64.93           |                 |                 |                 |                 |
| Bhutan                   |                 |                 |                 |                 |                 |                 |                 | 0.11            |                 |                 |
| China                    |                 |                 |                 | 0.10            | 0.10            | 67.59           | 0.25            | 0.09            | 0.35            |                 |
| India                    | 127.86          | 97.47           | 108.88          | 0.19            | 134.93          | 18.50           | 369.92          | 95.74           | 53.97           | 75.00           |
| Indonesia                |                 | 4.06            |                 |                 |                 | 63.10           |                 |                 | 29.74           | 16.35           |
| Kazakhstan               |                 | 24.90           |                 |                 |                 |                 |                 | 51.13           |                 | 1.54            |
| Korea DPR                | 0.02            |                 |                 |                 |                 |                 |                 |                 |                 | 44.83           |
| Lao PDR                  |                 |                 |                 |                 |                 |                 |                 |                 |                 | 155.30          |
| Mongolia                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| Nepal                    |                 | 0.20            |                 |                 |                 | 64.58           | 13.96           | 43.76           |                 | 26.58           |
| Pakistan                 | 229.61          | 195.70          | 169.58          | 85.59           |                 | 171.76          |                 | 154.11          | 9.88            |                 |
| Philippines              |                 |                 | 22.67           |                 |                 |                 |                 |                 | 38.51           | 7.99            |
| Sri Lanka                |                 |                 | 0.06            |                 | 32.91           | 224.05          |                 |                 |                 | 0.61            |
| Tajikistan               |                 |                 |                 |                 |                 |                 |                 | 6.59            |                 |                 |
| Thailand                 | 4.65            |                 | 60.08           |                 |                 |                 |                 | 107.53          | 32.81           |                 |
| Uzbekistan               |                 |                 |                 |                 |                 |                 |                 |                 |                 | 615.54          |
| Viet Nam                 | 0.73            | 14.22           | 1.97            | 0.04            |                 | 1.05            | 0.37            |                 | 10.79           | 25.88           |
| Unspecified Asia         | 15.41           | 5.13            | 0.06            |                 |                 | 10.71           | 0.15            |                 | 91.68           |                 |
| Unspecified C and S Asia |                 |                 |                 |                 |                 |                 |                 |                 | 0.07            | 0.39            |
|                          |                 |                 |                 |                 |                 |                 |                 |                 | 10.30           |                 |
| <b>C America + Carib</b> | <b>86.52</b>    | <b>232.73</b>   | <b>208.19</b>   | <b>38.25</b>    | <b>84.95</b>    | <b>14.84</b>    | <b>66.26</b>    | <b>0.41</b>     | <b>33.37</b>    |                 |
| Antigua Barb             |                 |                 |                 |                 |                 | 16.80           |                 |                 |                 |                 |
| Costa Rica               | 28.27           |                 |                 | 169.57          | 26.84           |                 |                 |                 |                 |                 |
| Cuba                     |                 |                 |                 |                 |                 |                 |                 | 0.00            |                 |                 |
| Dominican Rep            |                 |                 |                 |                 |                 | 44.43           |                 | 3.79            |                 |                 |
| Guatemala                |                 |                 |                 |                 |                 |                 |                 | 62.47           | 27.67           |                 |
| Haiti                    |                 |                 |                 |                 |                 |                 |                 |                 |                 | 5.70            |
| Honduras                 | 58.25           |                 |                 |                 |                 | 22.77           |                 |                 |                 |                 |
| Jamaica                  |                 | 59.53           | 38.61           |                 |                 | 0.94            | 0.06            |                 |                 |                 |
| Nicaragua                |                 |                 |                 |                 |                 |                 |                 |                 | 0.12            |                 |
| Panama                   |                 | 173.20          |                 |                 | 11.41           |                 |                 |                 |                 |                 |
| Unspecified C Am + Carib |                 |                 |                 |                 |                 |                 | 14.77           |                 |                 |                 |
| <b>Eurasia</b>           | <b>52.93</b>    |                 |                 | <b>42.45</b>    | <b>21.46</b>    | <b>69.92</b>    | <b>0.11</b>     | <b>0.05</b>     |                 | <b>158.60</b>   |
| Azerbaijan               |                 |                 |                 |                 |                 |                 |                 |                 |                 | 108.71          |
| Georgia                  |                 |                 |                 |                 |                 |                 |                 |                 |                 | 3.95            |
| Türkiye                  |                 | 52.93           |                 |                 | 42.45           | 21.46           | 69.85           |                 |                 | 45.94           |

**Wind energy**  
**Énergie éolienne**  
**Energía eólica**

| (2021 USD million)           | 2013            | 2014            | 2015            | 2016            | 2017            | 2018            | 2019            | 2020            | 2021            | 2022            |
|------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| <b>Europe</b>                | <b>2 303.27</b> | <b>4 123.29</b> | <b>1 925.60</b> | <b>3 131.90</b> | <b>2 824.12</b> | <b>2 036.33</b> | <b>934.30</b>   | <b>1 465.59</b> | <b>2 895.46</b> | <b>1 434.95</b> |
| Austria                      | 217.58          | 78.05           | 97.94           | 61.67           | 44.53           | 40.42           |                 | 206.19          |                 | 2.99            |
| Belgium                      |                 |                 | 323.87          | 1 510.69        |                 | 378.46          |                 |                 |                 |                 |
| Bosnia Herzg                 |                 |                 |                 |                 | 77.55           |                 |                 |                 |                 |                 |
| Croatia                      | 25.43           | 27.78           |                 |                 |                 |                 |                 |                 |                 | 70.32           |
| Denmark                      | 32.54           |                 |                 |                 |                 |                 |                 | 206.98          |                 | 78.09           |
| Estonia                      |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| Finland                      |                 | 23.20           |                 |                 |                 |                 |                 |                 | 65.05           |                 |
| France                       |                 |                 |                 |                 |                 |                 | 544.52          | 413.96          | 181.23          |                 |
| North Macedonia              |                 |                 |                 |                 |                 |                 |                 | 11.88           |                 |                 |
| Germany                      | 616.06          | 756.39          | 202.09          |                 | 30.05           | 52.51           |                 | 183.49          | 679.60          |                 |
| Greece                       |                 |                 | 1.70            |                 |                 |                 |                 |                 |                 |                 |
| Hungary                      |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| Ireland                      | 116.78          |                 |                 |                 |                 | 93.22           |                 |                 | 136.07          |                 |
| Italy                        |                 |                 |                 |                 | 190.84          |                 |                 | 89.42           | 56.63           |                 |
| Moldova Rep                  |                 |                 |                 |                 |                 | 0.06            |                 |                 |                 |                 |
| Montenegro                   |                 |                 | 21.67           |                 |                 |                 |                 |                 | 89.40           |                 |
| Netherlands                  |                 | 969.50          |                 | 269.32          |                 |                 |                 |                 | 591.37          | 13.76           |
| Norway                       |                 |                 |                 |                 |                 |                 |                 | 82.08           |                 |                 |
| Poland                       | 124.33          | 125.37          | 128.24          |                 |                 |                 | 151.55          | 419.83          | 116.63          | 73.35           |
| Portugal                     |                 |                 |                 |                 |                 | 75.08           | 57.78           | 78.65           |                 | 110.43          |
| Romania                      | 364.04          | 130.98          |                 |                 | 245.57          | 30.14           | 13.22           |                 | 2.64            | 30.19           |
| Serbia                       |                 | 3.57            |                 |                 | 572.50          | 200.20          | 534.81          | 134.31          | 295.69          |                 |
| Spain                        |                 |                 |                 |                 | 627.75          |                 |                 |                 | 27.20           | 48.95           |
| Sweden                       | 66.16           | 57.26           |                 | 15.03           |                 |                 |                 |                 |                 |                 |
| UK                           | 740.34          | 1 951.19        | 1 150.08        | 1 275.18        | 1 035.34        | 1 004.69        | 161.63          |                 | 755.09          |                 |
| Ukraine                      |                 |                 |                 |                 |                 |                 | 176.89          |                 |                 |                 |
| <b>Middle East</b>           | <b>120.94</b>   | <b>20.41</b>    |                 | <b>57.26</b>    | <b>63.09</b>    | <b>58.42</b>    | <b>1.78</b>     | <b>0.84</b>     |                 |                 |
| Iran IR                      |                 |                 |                 |                 | 0.32            |                 |                 |                 |                 |                 |
| Jordan                       | 120.94          |                 |                 | 57.26           | 62.73           | 58.39           | 1.78            |                 |                 |                 |
| Palestine                    |                 |                 |                 |                 | 0.03            | 0.03            |                 | 0.84            |                 |                 |
| Yemen                        |                 | 20.41           |                 |                 |                 |                 |                 |                 |                 |                 |
| <b>North America</b>         | <b>286.78</b>   | <b>0.01</b>     |                 |                 |                 | <b>4.92</b>     | <b>16.20</b>    |                 |                 |                 |
| Mexico                       |                 | 286.78          | 0.01            |                 |                 | 4.92            | 16.20           |                 |                 |                 |
| Oceania                      | 10.01           |                 |                 |                 | 51.63           |                 | 0.16            |                 |                 | 0.02            |
| Micronesia                   | 4.89            |                 |                 |                 | 31.82           |                 |                 |                 |                 |                 |
| New Caledon                  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| Samoa                        | 5.12            |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| Tonga                        |                 |                 |                 |                 | 19.26           |                 |                 |                 |                 |                 |
| Unspecified Oceania          |                 |                 |                 |                 | 0.56            |                 | 0.16            |                 |                 | 0.02            |
| <b>South America</b>         | <b>1 587.22</b> | <b>2 108.28</b> | <b>2 214.28</b> | <b>726.74</b>   | <b>2 351.61</b> | <b>576.24</b>   | <b>1 423.33</b> | <b>534.39</b>   | <b>1 181.06</b> | <b>1 126.44</b> |
| Argentina                    | 40.94           |                 |                 |                 | 108.13          | 108.50          | 399.35          | 2.89            | 1.89            | 10.74           |
| Bolivia                      |                 |                 |                 |                 | 83.15           | 0.26            | 0.23            |                 |                 |                 |
| Brazil                       | 1 182.89        | 1 696.98        | 2 027.09        | 726.62          | 2 160.33        | 445.98          | 1 023.75        | 531.51          | 1 094.12        | 698.79          |
| Chile                        | 0.75            | 197.06          |                 |                 |                 |                 |                 |                 | 0.05            |                 |
| Colombia                     |                 |                 |                 |                 |                 |                 |                 |                 | 85.00           | 416.92          |
| Peru                         | 225.23          | 20.41           | 23.94           |                 |                 | 21.49           |                 |                 |                 |                 |
| Uruguay                      | 137.41          | 193.82          | 163.25          |                 |                 |                 |                 |                 |                 |                 |
| <b>Unspecified countries</b> | <b>0.04</b>     |                 | <b>1.38</b>     |                 |                 |                 | <b>11.50</b>    | <b>3.82</b>     |                 | <b>0.13</b>     |

# Solar energy

## Énergie solaire

## Energía solar

| (2021 USD million)       | 2013            | 2014            | 2015            | 2016             | 2017            | 2018            | 2019            | 2020            | 2021            | 2022            |
|--------------------------|-----------------|-----------------|-----------------|------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| <b>World</b>             | <b>3 103.28</b> | <b>3 985.11</b> | <b>2 748.66</b> | <b>11 545.73</b> | <b>4 768.45</b> | <b>4 465.64</b> | <b>3 451.87</b> | <b>3 647.38</b> | <b>6 896.24</b> | <b>7 873.63</b> |
| <b>Africa</b>            | <b>863.32</b>   | <b>1 823.23</b> | <b>1 434.51</b> | <b>2 547.78</b>  | <b>1 980.97</b> | <b>1 599.80</b> | <b>1 505.44</b> | <b>958.18</b>   | <b>1 953.89</b> | <b>2 681.51</b> |
| Algeria                  | 0.02            | 0.04            | 0.17            | 0.15             |                 |                 | 0.04            | 0.00            | 0.00            |                 |
| Angola                   |                 |                 |                 | 42.96            |                 | 0.12            | 0.06            | 0.03            |                 | 41.41           |
| Benin                    |                 |                 | 6.92            | 0.35             | 203.61          | 0.85            | 0.00            | 0.03            | 27.38           | 63.48           |
| Botswana                 |                 |                 |                 |                  |                 |                 |                 |                 | 41.67           | 1.56            |
| Burkina Faso             | 33.31           | 28.99           | 0.02            | 32.03            | 15.55           | 27.40           | 37.55           | 161.43          | 60.55           | 6.76            |
| Burundi                  | 0.01            |                 | 0.68            |                  |                 | 10.78           | 0.21            | 99.24           |                 |                 |
| Cabo Verde               |                 |                 |                 |                  |                 |                 |                 |                 | 7.00            |                 |
| Cameroon                 |                 | 2.02            | 102.38          | 84.70            | 0.02            | 32.48           | 0.76            | 39.21           | 0.58            | 0.27            |
| Cent Afr Rep             |                 |                 |                 |                  |                 | 3.01            | 54.80           | 6.27            |                 | 81.64           |
| Chad                     |                 | 0.01            |                 | 45.25            | 0.00            |                 | 21.18           | 11.94           | 11.83           | 165.17          |
| Comoros                  |                 |                 |                 |                  |                 | 0.16            | 17.51           | 17.92           | 0.01            | 28.59           |
| Congo DR                 | 0.00            | 0.01            | 0.01            | 11.96            |                 | 0.01            | 0.10            | 0.06            | 21.16           | 1.24            |
| Congo Rep                |                 |                 |                 | 0.09             |                 | 0.04            |                 |                 | 0.03            |                 |
| Cote d'Ivoire            |                 |                 |                 | 5.90             | 12.55           | 29.36           | 11.79           | 26.53           | 88.16           | 185.04          |
| Djibouti                 |                 |                 |                 |                  |                 | 0.01            | 1.86            | 0.07            |                 | 33.03           |
| Egypt                    | 147.67          | 0.01            | 51.71           | 318.79           | 1 193.14        | 21.96           | 37.23           | 24.37           | 70.41           | 387.23          |
| Eritrea                  |                 |                 | 15.79           |                  |                 |                 |                 | 0.00            |                 | 0.26            |
| Eswatini                 |                 |                 | 1.14            |                  |                 |                 | 1.63            | 0.03            | 0.22            | 0.06            |
| Ethiopia                 | 0.52            | 0.05            | 0.67            | 0.32             |                 | 12.14           | 2.23            | 0.06            | 387.84          | 0.69            |
| Gabon                    |                 |                 | 14.28           | 44.54            |                 | 0.02            |                 |                 |                 |                 |
| Gambia                   |                 |                 |                 |                  |                 | 22.06           | 11.50           | 32.54           | 0.01            | 27.41           |
| Ghana                    | 0.04            | 0.14            | 1.38            | 550.08           | 7.34            | 0.04            | 2.53            | 18.28           | 0.05            | 128.23          |
| Guinea                   |                 |                 |                 | 154.08           | 0.04            | 0.06            | 22.51           |                 | 0.01            | 0.03            |
| Guinea Bissau            |                 |                 |                 |                  |                 | 4.95            |                 |                 |                 |                 |
| Kenya                    | 0.19            | 0.09            | 164.54          | 220.25           | 94.28           | 76.24           | 130.60          | 35.51           | 14.82           | 119.11          |
| Lesotho                  |                 |                 | 0.06            |                  | 0.11            | 0.97            | 14.76           | 79.45           |                 | 1.31            |
| Liberia                  |                 |                 |                 |                  |                 |                 |                 | 0.34            | 3.54            | 10.95           |
| Libya                    |                 |                 |                 |                  |                 |                 |                 | 0.01            | 0.25            |                 |
| Madagascar               | 0.01            |                 | 0.70            | 10.40            | 0.90            | 0.11            | 0.07            | 3.42            | 3.12            | 21.52           |
| Malawi                   | 0.14            |                 |                 |                  | 0.12            | 0.02            | 101.60          | 1.68            | 13.73           | 27.26           |
| Mali                     | 34.82           | 1.54            |                 | 66.00            | 22.70           | 2.85            | 49.18           | 0.54            | 0.76            | 3.85            |
| Mauritania               | 24.76           | 0.13            | 0.13            | 5.64             |                 | 0.75            | 13.66           | 0.10            | 0.02            | 13.02           |
| Mauritius                |                 | 0.00            | 0.02            |                  |                 |                 | 10.95           |                 |                 |                 |
| Morocco                  | 5.42            | 1 492.88        | 189.06          | 198.48           | 86.52           | 897.19          | 386.57          | 1.80            | 0.59            | 0.06            |
| Mozambique               | 1.89            | 0.43            | 0.67            | 34.32            | 47.24           | 8.32            | 63.01           |                 | 25.56           | 1.18            |
| Namibia                  |                 | 0.07            |                 | 12.74            | 31.91           | 46.19           |                 |                 |                 |                 |
| Niger                    |                 |                 |                 | 0.00             | 55.85           | 45.54           | 45.98           | 26.90           | 256.33          | 3.11            |
| Nigeria                  | 0.01            | 0.15            | 20.06           | 64.84            | 36.34           | 108.18          | 138.66          | 29.89           | 32.54           | 10.79           |
| Reunion                  | 11.66           | 12.09           |                 |                  |                 |                 |                 |                 |                 |                 |
| Rwanda                   | 0.01            | 13.20           |                 | 12.01            | 26.49           | 13.46           | 0.11            | 15.95           | 85.31           |                 |
| Sao Tome Prn             | 0.03            |                 |                 |                  |                 |                 |                 |                 | 1.10            |                 |
| Senegal                  | 1.51            | 0.09            | 35.95           | 69.15            | 46.22           | 74.72           | 58.22           | 113.06          | 7.25            | 88.27           |
| Sierra Leone             |                 | 9.19            |                 | 31.77            |                 |                 |                 | 1.58            | 14.19           | 27.90           |
| Somalia                  | 2.78            |                 | 0.36            | 0.46             |                 | 0.06            | 20.35           | 0.16            | 150.01          | 14.50           |
| South Africa             | 571.97          | 170.38          | 775.55          | 73.82            | 2.40            | 30.75           | 43.08           | 0.09            | 0.06            | 494.70          |
| South Sudan              |                 |                 | 0.08            | 0.02             | 0.28            |                 | 0.11            | 0.06            | 0.21            |                 |
| Sudan                    |                 |                 |                 |                  |                 | 8.36            | 19.57           | 0.14            |                 |                 |
| Tanzania                 | 11.42           | 7.93            | 1.38            | 0.32             | 0.09            | 21.33           | 0.62            | 1.85            | 216.96          | 0.04            |
| Togo                     | 0.01            | 61.19           |                 | 0.05             | 0.00            |                 | 0.20            | 15.95           | 23.03           | 1.93            |
| Tunisia                  | 9.26            |                 | 9.51            | 50.26            | 0.37            | 17.70           | 2.93            | 1.46            | 20.26           | 0.37            |
| Uganda                   | 4.44            |                 | 19.03           | 31.78            | 1.99            | 3.30            | 4.12            | 13.39           | 0.10            | 547.85          |
| Zambia                   | 0.01            |                 |                 | 28.75            | 65.38           | 0.50            | 12.48           | 0.27            | 0.74            | 5.37            |
| Zimbabwe                 | 0.26            | 19.60           |                 | 0.03             | 0.01            |                 | 0.25            | 0.03            |                 | 0.01            |
| Unspecified Africa       | 1.67            | 2.54            | 22.89           | 345.02           | 29.31           | 86.19           | 176.11          | 157.08          | 366.37          | 136.32          |
| <b>Asia</b>              | <b>581.13</b>   | <b>563.78</b>   | <b>288.96</b>   | <b>3 482.01</b>  | <b>1 045.47</b> | <b>1 575.01</b> | <b>648.27</b>   | <b>1 275.98</b> | <b>2 317.92</b> | <b>654.55</b>   |
| Afghanistan              | 0.18            | 0.83            |                 | 0.17             | 50.14           | 48.17           | 4.38            | 18.29           |                 |                 |
| Bangladesh               |                 | 78.42           |                 | 458.13           | 137.18          | 97.87           | 149.84          | 20.82           | 323.73          | 0.58            |
| Bhutan                   |                 |                 |                 |                  |                 |                 |                 | 0.53            | 0.40            | 19.94           |
| Cambodia                 | 0.44            | 0.15            | 0.37            | 171.17           | 3.67            | 17.02           | 0.23            | 20.69           | 32.33           | 1.83            |
| China                    | 61.97           | 153.43          | 0.10            | 316.80           | 179.14          | 53.26           | 1.06            | 64.16           |                 | 2.51            |
| India                    | 311.73          | 222.15          | 196.89          | 1 588.94         | 464.21          | 653.46          | 325.59          | 697.90          | 928.76          | 291.15          |
| Indonesia                | 0.18            | 0.68            | 86.89           | 166.79           | 1.86            | 13.42           | 0.79            | 23.21           | 361.81          | 8.48            |
| Kazakhstan               |                 |                 |                 | 50.21            |                 | 120.13          | 45.16           |                 |                 |                 |
| Kyrgyzstan               |                 |                 |                 |                  | 0.08            | 0.01            |                 |                 |                 | 40.98           |
| Lao PDR                  |                 |                 |                 | 20.01            | 0.00            |                 | 0.09            | 0.05            | 0.02            | 0.65            |
| Malaysia                 | 0.14            | 0.21            | 0.14            |                  |                 |                 | 0.02            | 4.13            |                 |                 |
| Maldives                 |                 | 46.52           |                 |                  |                 | 6.25            | 4.40            | 14.96           | 27.29           | 0.65            |
| Mongolia                 |                 |                 |                 | 91.72            | 37.70           | 48.97           | 10.51           | 32.92           | 2.32            |                 |
| Myanmar                  | 1.11            | 3.58            | 0.94            | 12.29            | 3.65            | 2.74            | 20.88           | 1.09            | 6.80            |                 |
| Nepal                    | 0.20            | 53.18           |                 | 0.16             | 0.21            | 0.12            | 0.00            | 17.36           | 14.33           | 7.60            |
| Pakistan                 | 0.33            |                 | 0.33            | 132.01           | 83.20           | 108.39          | 24.83           | 227.04          | 112.79          | 2.37            |
| Philippines              | 0.48            |                 | 0.07            | 82.40            |                 | 0.01            | 0.85            | 0.97            | 0.66            | 0.67            |
| Sri Lanka                | 2.30            |                 | 0.06            | 33.06            |                 | 216.38          |                 |                 | 0.40            | 6.05            |
| Tajikistan               |                 |                 |                 |                  |                 |                 | 6.59            | 4.84            | 0.09            | 14.48           |
| Thailand                 | 53.63           |                 | 0.03            |                  | 0.00            | 164.07          | 0.05            | 25.04           | 23.20           | 32.48           |
| Timor Leste              | 0.47            |                 |                 | 1.14             |                 |                 |                 | 1.87            | 2.92            |                 |
| Turkmenistan             |                 |                 | 0.11            | 0.02             |                 |                 |                 |                 |                 |                 |
| Uzbekistan               | 112.57          |                 | 0.19            |                  |                 |                 | 0.02            | 32.17           | 76.09           | 140.65          |
| Viet Nam                 | 0.78            |                 |                 | 308.25           | 0.28            | 0.78            | 49.08           | 48.01           | 132.00          | 71.75           |
| Unspecified Asia         | 35.87           | 7.17            | 0.09            | 59.96            | 75.50           | 1.78            | 22.01           | 0.05            | 176.99          | 4.76            |
| Unspecified C and S Asia |                 |                 | 0.03            |                  |                 | 21.27           | 0.04            | 0.08            | 100.71          | 0.18            |

# Solar energy

## Énergie solaire

## Energía solar

| (2021 USD million)       | 2013          | 2014          | 2015          | 2016            | 2017          | 2018          | 2019          | 2020          | 2021            | 2022            |
|--------------------------|---------------|---------------|---------------|-----------------|---------------|---------------|---------------|---------------|-----------------|-----------------|
| <b>C America + Carib</b> | <b>90.46</b>  | <b>172.56</b> | <b>332.48</b> | <b>816.49</b>   | <b>602.00</b> | <b>161.36</b> | <b>12.34</b>  | <b>16.16</b>  | <b>173.01</b>   | <b>108.21</b>   |
| Antigua Barb             |               |               |               |                 | 4.57          |               |               | 6.96          |                 |                 |
| Bahamas                  |               |               |               |                 |               |               |               | 2.25          |                 |                 |
| Belize                   |               |               |               |                 |               |               |               | 0.02          | 3.00            |                 |
| Costa Rica               |               |               |               | 156.91          |               | 0.03          | 0.31          |               | 15.03           |                 |
| Cuba                     | 0.39          | 0.05          | 17.31         | 0.03            | 52.37         |               | 2.07          | 3.19          | 0.13            | 0.99            |
| Dominica                 |               | 1.86          |               |                 |               | 1.80          |               |               |                 |                 |
| Dominican Rep            | 0.00          | 0.36          |               | 89.67           | 45.97         | 0.08          | 0.12          | 0.03          | 3.00            | 91.11           |
| El Salvador              | 38.79         |               | 65.41         | 74.30           | 337.71        | 31.02         |               |               | 0.07            |                 |
| Grenada                  |               |               | 0.07          |                 | 0.12          |               |               |               | 3.00            |                 |
| Guatemala                |               |               |               | 13.82           |               | 12.40         |               | 0.07          |                 | 0.03            |
| Haiti                    | 0.96          | 0.78          | 0.35          | 0.62            | 22.35         | 0.41          | 8.85          | 2.23          | 6.00            | 2.98            |
| Honduras                 | 48.31         | 165.85        | 144.07        | 81.38           | 81.58         | 24.39         | 0.34          |               | 17.02           | 0.05            |
| Jamaica                  |               |               | 0.67          | 54.51           |               | 76.27         | 0.01          | 3.19          | 13.33           |                 |
| Nicaragua                | 0.04          | 0.01          | 0.01          | 73.25           | 51.03         | 0.12          | 0.18          | 0.22          | 107.25          | 0.02            |
| Panama                   | 1.97          |               | 50.74         | 250.25          |               | 0.06          |               |               |                 |                 |
| St Lucia                 |               |               |               |                 |               |               |               | 3.00          |                 | 0.63            |
| St Vincent Gren          |               |               |               |                 | 3.36          |               |               |               |                 |                 |
| Unspecified C Am + Carib |               | 2.87          |               | 76.27           | 2.94          | 14.77         | 0.47          | 0.26          |                 | 12.33           |
| <b>Eurasia</b>           | <b>0.06</b>   | <b>3.96</b>   | <b>19.10</b>  | <b>1 206.65</b> | <b>27.12</b>  | <b>106.12</b> | <b>13.49</b>  | <b>11.05</b>  | <b>7.65</b>     | <b>162.30</b>   |
| Armenia                  |               |               |               | 51.43           |               | 30.27         | 0.04          | 10.40         | 0.14            | 1.05            |
| Azerbaijan               |               |               |               |                 |               |               |               |               |                 | 153.93          |
| Georgia                  | 0.06          |               |               | 79.88           | 0.23          | 0.03          | 13.46         | 0.65          | 0.94            | 0.89            |
| Türkiye                  |               | 3.96          | 19.10         | 1 075.33        | 26.89         | 75.82         |               |               | 6.57            | 6.42            |
| <b>Europe</b>            | <b>434.27</b> | <b>0.03</b>   | <b>108.58</b> | <b>98.75</b>    | <b>0.81</b>   | <b>134.41</b> | <b>680.78</b> | <b>358.10</b> | <b>1 299.19</b> | <b>2 094.14</b> |
| Albania                  |               |               |               |                 | 0.13          |               |               |               | 10.66           | 35.98           |
| Belarus                  |               |               |               |                 |               |               | 0.24          |               |                 |                 |
| Belgium                  |               |               |               |                 |               |               |               |               |                 | 60.03           |
| Bosnia Herzg             | 0.01          |               |               | 3.50            | 0.25          | 0.38          | 0.50          | 0.03          | 0.06            | 0.16            |
| Bulgaria                 |               |               |               |                 |               |               | 1.09          |               |                 |                 |
| Estonia                  |               |               |               |                 |               |               | 10.91         |               |                 |                 |
| North Macedonia          |               |               |               |                 |               | 8.88          |               | 7.87          |                 | 136.25          |
| Greece                   |               |               |               |                 |               |               |               | 91.09         |                 |                 |
| Ireland                  |               |               |               |                 |               |               |               |               |                 | 23.79           |
| Italy                    |               |               |               | 89.94           |               | 2.88          |               |               |                 | 177.83          |
| Kosovo                   | 0.29          |               |               |                 |               | 0.02          | 0.03          | 0.02          | 0.07            | 67.68           |
| Moldova Rep              |               | 0.03          | 0.08          | 0.23            | 0.05          | 0.10          | 0.06          | 0.03          | 0.29            | 0.71            |
| Montenegro               |               |               |               | 5.09            |               |               |               |               |                 |                 |
| Netherlands              |               |               |               |                 |               |               |               | 0.18          |                 |                 |
| Poland                   |               |               |               |                 |               |               |               | 22.29         |                 | 49.24           |
| Portugal                 |               |               |               |                 |               |               |               |               | 47.31           | 79.29           |
| Romania                  | 84.22         |               |               |                 |               |               |               |               |                 |                 |
| Serbia                   |               |               |               |                 |               |               | 10.99         | 1.77          | 1.57            |                 |
| Spain                    | 349.69        |               | 108.49        |                 | 0.39          | 87.59         | 640.54        | 213.55        | 1 132.82        | 1 461.09        |
| Ukraine                  | 0.05          |               |               |                 |               | 34.56         | 39.65         |               | 106.03          | 0.53            |
| Unspecified Europe       |               |               |               |                 |               |               |               |               |                 | 0.01            |
| <b>Middle East</b>       | <b>0.84</b>   | <b>909.02</b> | <b>322.75</b> | <b>594.43</b>   | <b>257.34</b> | <b>82.19</b>  | <b>78.54</b>  | <b>196.57</b> | <b>130.67</b>   | <b>170.26</b>   |
| Iran IR                  |               |               |               |                 | 3.92          |               |               |               |                 | 0.06            |
| Iraq                     |               |               |               |                 |               |               | 0.53          | 0.98          |                 |                 |
| Israel                   |               | 484.24        | 182.66        | 285.29          |               |               |               |               |                 |                 |
| Jordan                   | 0.05          | 169.99        | 138.63        | 268.72          | 251.90        |               | 59.09         | 23.59         | 23.99           | 0.95            |
| Lebanon                  | 0.02          | 0.11          | 0.43          | 25.85           |               | 0.34          | 0.34          | 0.17          | 0.70            | 2.12            |
| Palestine                | 0.05          | 2.05          | 0.46          | 2.94            | 5.11          | 16.77         | 17.80         | 12.06         | 24.71           | 21.51           |
| Qatar                    |               |               |               |                 |               |               | 159.09        |               |                 |                 |
| Saudi Arabia             |               |               |               |                 |               |               |               | 78.00         |                 |                 |
| Syrian AR                |               |               |               |                 |               |               |               |               |                 | 0.61            |
| Yemen                    | 0.72          |               |               |                 |               | 61.05         | 1.31          | 1.14          |                 | 134.60          |
| Unspecified Mid East     |               | 252.63        | 0.57          | 11.63           | 0.33          | 0.11          |               |               | 2.29            | 10.42           |
| <b>North America</b>     | <b>26.17</b>  | <b>17.85</b>  | <b>26.31</b>  | <b>91.41</b>    | <b>157.43</b> | <b>74.10</b>  | <b>270.75</b> | <b>369.95</b> | <b>80.41</b>    | <b>0.73</b>     |
| Mexico                   | 26.17         | 17.85         | 26.31         | 91.41           | 157.43        | 74.10         | 270.75        | 369.95        | 80.41           | 0.73            |

# Solar energy

## Énergie solaire

## Energía solar

| (2021 USD million)           | 2013            | 2014          | 2015          | 2016            | 2017          | 2018          | 2019          | 2020          | 2021          | 2022            |
|------------------------------|-----------------|---------------|---------------|-----------------|---------------|---------------|---------------|---------------|---------------|-----------------|
| <b>Oceania</b>               | <b>34.08</b>    | <b>46.54</b>  | <b>42.94</b>  | <b>47.01</b>    | <b>54.06</b>  | <b>27.87</b>  | <b>54.30</b>  | <b>12.63</b>  | <b>36.59</b>  | <b>46.11</b>    |
| Australia                    |                 |               |               |                 |               |               |               |               |               | 36.13           |
| Cook Is                      | 8.32            | 16.67         | 15.00         | 4.87            |               |               |               |               |               |                 |
| Fiji                         | 5.12            | 4.48          | 0.20          | 0.20            | 0.05          |               | 0.01          | 4.19          | 0.01          |                 |
| Kiribati                     | 5.12            | 4.48          |               |                 |               | 0.93          |               | 8.29          |               | 0.06            |
| Marshall Is                  | 1.39            |               | 4.53          |                 | 37.24         |               |               |               | 0.20          |                 |
| Micronesia                   | 1.37            |               | 4.44          |                 | 1.33          | 9.99          | 16.42         |               |               | 1.04            |
| Nauru                        |                 |               | 4.08          |                 |               |               | 24.09         |               |               | 0.05            |
| Niue                         | 0.40            |               |               |                 |               |               |               |               |               | 0.04            |
| Palau                        |                 |               | 5.67          |                 |               |               |               |               |               | 41.40           |
| Papua N Guin                 |                 |               |               | 34.23           | 0.15          | 0.07          | 0.06          | 0.03          | 0.01          | 0.01            |
| Samoa                        |                 | 5.52          |               |                 | 2.24          |               |               |               |               |                 |
| Solomon Is                   |                 |               | 7.37          | 7.58            | 2.51          | 10.52         |               |               |               |                 |
| Tokelau                      |                 |               |               |                 |               |               | 4.46          |               |               |                 |
| Tonga                        | 2.05            |               | 1.63          | 0.13            | 0.06          | 5.91          |               |               |               |                 |
| Tuvalu                       | 5.20            | 5.93          |               |                 |               | 0.43          | 6.75          | 0.05          |               |                 |
| Vanuatu                      | 5.12            | 9.46          |               |                 | 9.08          | 0.02          | 0.87          | 0.06          |               | 0.01            |
| Unspecified Oceania          |                 |               |               |                 | 1.39          |               | 1.64          |               | 0.20          | 3.56            |
| <b>South America</b>         | <b>1 071.48</b> | <b>447.12</b> | <b>133.54</b> | <b>2 031.11</b> | <b>640.70</b> | <b>616.33</b> | <b>111.53</b> | <b>440.37</b> | <b>832.93</b> | <b>1 883.66</b> |
| Argentina                    | 11.26           | 0.05          | 8.69          | 256.78          | 382.56        | 80.77         | 106.33        | 0.01          | 0.92          | 0.01            |
| Bolivia                      | 5.51            | 0.01          | 0.02          | 76.01           | 0.01          | 0.01          | 0.01          | 0.05          | 0.02          | 0.14            |
| Brazil                       | 323.60          |               | 0.67          | 175.53          | 189.76        | 504.75        | 4.31          | 435.39        | 756.26        | 1 585.27        |
| Chile                        | 731.03          | 392.82        | 60.93         | 232.80          | 32.51         |               |               |               |               |                 |
| Colombia                     | 0.08            |               |               | 1 101.52        | 33.61         | 22.05         | 0.81          | 0.09          | 16.06         | 131.00          |
| Ecuador                      |                 | 6.63          |               | 131.39          | 0.36          |               |               |               | 5.79          | 79.72           |
| Fr Guiana                    |                 |               |               |                 |               |               |               |               | 29.57         |                 |
| Guyana                       |                 |               | 0.09          |                 |               | 8.70          |               | 1.59          | 3.00          | 86.24           |
| Peru                         | 0.00            | 47.60         | 0.00          | 57.07           | 1.89          | 0.05          | 0.08          | 0.05          | 21.00         | 1.14            |
| Suriname                     |                 |               |               |                 |               |               |               | 3.19          | 0.30          | 0.13            |
| Uruguay                      |                 |               | 63.15         |                 |               |               |               |               |               |                 |
| <b>Unspecified countries</b> | <b>1.48</b>     | <b>1.02</b>   | <b>39.50</b>  | <b>630.09</b>   | <b>2.55</b>   | <b>88.38</b>  | <b>76.24</b>  | <b>8.38</b>   | <b>63.98</b>  | <b>65.73</b>    |
| <b>Multilateral</b>          |                 |               |               |                 |               | <b>0.08</b>   | <b>0.17</b>   |               |               | <b>6.43</b>     |

**Bioenergy**  
**Bioénergie**  
**Bioenergía**

| (2021 USD million)       | 2013          | 2014          | 2015            | 2016          | 2017          | 2018            | 2019          | 2020          | 2021          | 2022          |
|--------------------------|---------------|---------------|-----------------|---------------|---------------|-----------------|---------------|---------------|---------------|---------------|
| <b>World</b>             | <b>805.65</b> | <b>972.36</b> | <b>1 387.43</b> | <b>862.77</b> | <b>533.48</b> | <b>1 371.88</b> | <b>597.43</b> | <b>682.65</b> | <b>391.96</b> | <b>359.45</b> |
| <b>Africa</b>            | <b>16.51</b>  | <b>7.51</b>   | <b>75.69</b>    | <b>22.63</b>  | <b>23.91</b>  | <b>46.20</b>    | <b>5.29</b>   | <b>43.95</b>  | <b>186.65</b> | <b>50.69</b>  |
| Angola                   |               |               |                 | 19.97         |               |                 |               |               | 0.00          |               |
| Benin                    |               | 4.10          | 0.04            |               |               |                 | 0.01          | 0.12          | 0.08          | 0.01          |
| Burkina Faso             |               |               | 0.07            | 0.04          |               |                 |               | 0.24          |               | 0.08          |
| Burundi                  |               |               |                 |               |               |                 |               | 19.14         |               |               |
| Cameroon                 |               |               | 0.04            |               |               |                 |               |               |               |               |
| Chad                     |               |               |                 |               |               |                 |               |               |               | 30.54         |
| Congo DR                 |               |               |                 |               | 5.04          |                 | 0.06          |               | 0.03          |               |
| Cote d'Ivoire            |               |               |                 | 0.77          |               | 0.12            |               | 9.48          | 165.56        |               |
| Egypt                    | 0.02          | 0.03          | 0.03            |               | 0.62          |                 | 0.00          |               |               | 0.01          |
| Eritrea                  |               |               |                 |               |               | 0.03            |               |               |               |               |
| Ethiopia                 | 0.08          | 0.01          | 27.43           | 0.00          |               |                 | 0.00          |               |               | 0.05          |
| Ghana                    | 0.01          | 0.09          | 0.11            | 1.01          |               |                 |               | 0.22          |               |               |
| Guinea                   |               |               |                 |               |               |                 | 0.01          |               |               |               |
| Guinea Bissau            |               |               |                 |               | 3.68          |                 |               |               |               |               |
| Kenya                    |               | 0.34          |                 |               | 12.84         | 2.20            | 1.18          | 0.07          |               | 0.02          |
| Madagascar               |               |               | 0.04            |               | 0.04          |                 |               |               | 0.04          |               |
| Malawi                   |               |               |                 |               | 0.04          |                 |               |               |               |               |
| Mauritius                |               |               | 10.36           |               |               |                 |               |               |               |               |
| Morocco                  |               |               |                 |               |               |                 |               |               | 0.00          |               |
| Mozambique               |               |               |                 |               |               |                 |               |               | 0.94          |               |
| Nigeria                  |               |               | 0.11            |               | 0.11          |                 |               |               | 0.05          |               |
| Rwanda                   |               |               |                 |               |               |                 |               |               | 0.00          |               |
| Sao Tome Prn             |               | 0.13          | 0.39            | 0.34          | 0.66          | 0.92            | 1.19          | 13.59         | 0.10          | 0.02          |
| Senegal                  | 0.12          |               | 0.01            |               |               |                 |               |               |               | 0.76          |
| South Africa             |               |               |                 |               |               |                 |               |               |               |               |
| Tanzania                 | 16.04         | 0.87          | 31.13           | 0.36          | 0.24          | 0.02            | 0.17          | 0.49          | 0.56          | 0.06          |
| Togo                     |               |               |                 |               |               |                 |               |               |               | 17.17         |
| Uganda                   | 0.21          | 0.55          | 0.04            | 0.14          | 0.68          | 42.73           | 2.11          |               | 0.53          | 0.06          |
| Zambia                   |               | 0.01          | 5.86            |               |               |                 | 0.24          |               |               | 0.28          |
| Unspecified Africa       | 0.03          | 1.39          | 0.06            |               |               |                 |               |               | 19.73         | 1.70          |
| <b>Asia</b>              | <b>172.01</b> | <b>61.67</b>  | <b>95.53</b>    | <b>105.29</b> | <b>105.86</b> | <b>194.01</b>   | <b>152.52</b> | <b>71.44</b>  | <b>92.61</b>  | <b>119.83</b> |
| Afghanistan              |               | 1.86          |                 |               |               |                 |               |               |               |               |
| Bangladesh               |               | 0.26          |                 |               |               |                 | 0.00          | 0.11          |               |               |
| Bhutan                   | 0.02          | 0.05          | 0.12            |               |               |                 |               |               |               |               |
| Cambodia                 | 1.87          | 0.22          |                 |               |               |                 |               |               | 0.03          |               |
| China                    | 110.17        | 45.31         | 79.63           | 82.05         | 80.65         | 40.30           | 152.52        | 57.32         | 82.39         | 52.24         |
| India                    | 0.06          | 0.04          | 12.98           | 0.68          | 14.10         | 0.13            |               |               | 10.03         | 57.53         |
| Indonesia                | 0.38          | 0.86          | 0.03            | 0.05          |               | 7.63            |               |               | 0.41          | 0.44          |
| Maldives                 |               |               |                 |               |               |                 |               |               | 8.49          |               |
| Mongolia                 |               |               |                 |               |               | 0.26            |               |               |               |               |
| Myanmar                  |               |               |                 |               | 0.01          |                 |               |               |               | 2.26          |
| Nepal                    |               | 8.06          |                 |               |               |                 |               | 0.03          |               |               |
| Pakistan                 | 0.08          | 0.15          |                 |               |               |                 |               |               | 0.03          |               |
| Philippines              |               | 0.50          | 0.76            |               |               | 0.02            |               |               |               |               |
| Thailand                 |               | 4.08          | 0.19            | 0.27          | 0.02          | 37.86           |               |               |               |               |
| Timor Leste              | 0.03          | 0.01          |                 |               |               |                 |               |               |               |               |
| Uzbekistan               |               |               |                 |               |               |                 |               | 5.08          |               |               |
| Viet Nam                 | 44.00         | 0.22          | 1.83            | 20.54         | 0.45          | 107.65          | 0.00          |               | 0.01          | 7.25          |
| Unspecified Asia         | 15.41         | 0.03          |                 | 1.71          | 10.63         | 0.15            |               |               | 0.13          | 0.11          |
| <b>C America + Carib</b> | <b>68.52</b>  | <b>0.07</b>   | <b>73.53</b>    | <b>0.64</b>   |               | <b>14.80</b>    | <b>0.01</b>   | <b>0.72</b>   | <b>10.49</b>  | <b>0.22</b>   |
| Costa Rica               |               |               | 5.44            |               |               |                 |               |               |               |               |
| Cuba                     |               |               | 68.09           | 0.12          |               | 0.03            | 0.01          |               |               | 0.20          |
| Dominican Rep            |               |               |                 |               |               |                 |               | 0.72          |               |               |
| El Salvador              | 35.05         |               |                 |               | 0.48          |                 |               | 0.00          |               | 0.75          |
| Guatemala                |               |               |                 |               |               |                 |               |               | 9.74          |               |
| Haiti                    |               | 0.07          |                 |               |               |                 |               | 0.00          |               |               |
| Honduras                 | 33.47         |               |                 |               |               |                 |               |               |               |               |
| Jamaica                  |               |               |                 |               |               |                 | 0.00          |               |               |               |
| Unspecified C Am + Carib |               |               |                 | 0.05          |               | 14.77           |               |               |               | 0.03          |
| <b>Eurasia</b>           | <b>0.00</b>   | <b>0.90</b>   | <b>0.07</b>     |               |               | <b>0.09</b>     |               |               |               |               |
| Armenia                  |               |               |                 |               | 0.09          |                 |               |               |               |               |
| Georgia                  | 0.00          | 0.05          | 0.07            |               |               |                 |               |               |               |               |
| Türkiye                  |               | 0.85          |                 |               |               |                 |               |               |               |               |

**Bioenergy**  
**Bioénergie**  
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| (2021 USD million)           | 2013          | 2014          | 2015          | 2016          | 2017          | 2018          | 2019          | 2020          | 2021         | 2022          |
|------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--------------|---------------|
| <b>Europe</b>                | <b>526.15</b> | <b>876.50</b> | <b>832.79</b> | <b>718.08</b> | <b>319.59</b> | <b>951.37</b> | <b>395.33</b> | <b>350.45</b> | <b>38.96</b> | <b>39.91</b>  |
| Albania                      | 1.00          |               |               |               |               |               |               |               |              |               |
| Austria                      | 95.57         |               |               |               | 13.33         |               |               |               |              |               |
| Belarus                      |               | 67.06         |               |               | 0.04          |               |               |               |              |               |
| Bosnia Herzg                 | 0.83          | 0.09          | 1.20          | 0.20          | 10.98         |               | 158.00        | 0.14          |              | 0.06          |
| Bulgaria                     |               |               |               |               | 83.83         |               |               |               |              |               |
| Estonia                      |               |               | 52.84         |               |               |               |               |               |              |               |
| Finland                      | 54.23         |               | 171.64        | 226.90        |               | 321.95        | 12.92         | 292.61        |              | 19.52         |
| France                       | 123.40        | 263.09        | 182.40        |               |               | 118.56        |               |               |              | 20.39         |
| North Macedonia              |               |               |               |               |               |               |               | 7.57          |              |               |
| Italy                        |               | 46.04         |               | 83.51         |               | 34.41         |               |               |              |               |
| Kosovo                       |               |               | 27.20         |               |               |               |               |               |              | 38.14         |
| Lithuania                    |               |               |               |               |               |               |               |               |              |               |
| Moldova Rep                  | 24.17         | 0.03          | 0.02          |               |               |               |               |               |              |               |
| Montenegro                   |               | 0.30          |               |               |               |               |               |               |              | 0.05          |
| Norway                       |               | 77.76         |               |               |               |               | 52.51         | 25.90         |              |               |
| Poland                       |               |               |               |               |               |               |               | 24.20         |              |               |
| Serbia                       | 11.21         | 0.03          |               | 7.85          | 32.44         | 77.03         | 0.01          | 0.01          |              | 0.71          |
| Spain                        | 5.76          |               |               |               |               | 75.08         |               |               |              |               |
| Sweden                       | 21.44         | 221.10        | 13.65         | 138.44        | 5.39          |               | 119.33        |               |              |               |
| UK                           | 188.18        | 200.80        | 381.14        | 247.73        | 239.05        | 154.09        |               |               |              |               |
| Ukraine                      | 0.37          |               | 2.70          | 0.07          | 31.73         | 86.43         | 52.55         | 0.01          |              |               |
| Unspecified Europe           |               | 0.19          |               |               |               |               |               |               |              |               |
| <b>Middle East</b>           | <b>0.01</b>   |               |               |               | <b>0.03</b>   |               |               |               | <b>0.14</b>  |               |
| Lebanon                      |               |               |               |               |               |               |               |               | 0.14         |               |
| Palestine                    |               | 0.01          |               |               | 0.03          |               |               |               |              |               |
| <b>North America</b>         | <b>6.90</b>   |               |               |               | <b>4.92</b>   |               |               |               |              |               |
| Mexico                       |               | 6.90          |               |               | 4.92          |               |               |               |              |               |
| <b>Oceania</b>               |               |               | <b>0.02</b>   |               | <b>0.56</b>   | <b>0.08</b>   | <b>0.00</b>   |               |              | <b>0.13</b>   |
| Fiji                         |               |               | 0.01          |               |               |               | 0.00          |               |              |               |
| Papua N Guin                 |               |               |               |               |               |               |               |               |              | 0.04          |
| Solomon Is                   |               |               |               |               |               | 0.08          |               |               |              |               |
| Tuvalu                       |               |               |               |               |               |               |               |               |              | 0.09          |
| Unspecified Oceania          |               |               | 0.01          |               | 0.56          |               |               |               |              |               |
| <b>South America</b>         | <b>20.20</b>  | <b>18.00</b>  | <b>309.73</b> | <b>16.12</b>  | <b>82.04</b>  | <b>160.49</b> | <b>44.29</b>  | <b>216.08</b> | <b>63.11</b> | <b>129.19</b> |
| Argentina                    |               | 2.91          |               |               | 0.93          | 110.74        |               |               |              |               |
| Bolivia                      | 1.33          |               |               |               | 0.01          |               |               |               |              |               |
| Brazil                       | 18.29         | 14.80         | 299.84        | 14.14         | 74.20         | 49.75         | 44.29         | 215.95        | 62.50        | 129.19        |
| Chile                        | 0.58          | 0.23          | 1.05          | 0.39          | 0.30          |               |               |               |              |               |
| Colombia                     |               |               |               |               |               |               | 0.00          | 0.13          | 0.61         |               |
| Ecuador                      |               | 0.01          | 8.63          | 0.01          | 0.01          |               |               |               |              |               |
| Peru                         |               | 0.04          | 0.21          | 1.57          | 0.01          |               |               |               |              |               |
| Uruguay                      |               |               |               |               | 6.59          |               |               |               |              |               |
| <b>Unspecified countries</b> | <b>2.26</b>   | <b>0.79</b>   | <b>0.07</b>   |               | <b>1.41</b>   |               |               |               |              | <b>19.47</b>  |

# Geothermal energy

## Énergie géothermique

## Energía geotérmica

| (2021 USD million)       | 2013          | 2014            | 2015            | 2016            | 2017            | 2018            | 2019          | 2020          | 2021          | 2022         |
|--------------------------|---------------|-----------------|-----------------|-----------------|-----------------|-----------------|---------------|---------------|---------------|--------------|
| <b>World</b>             | <b>356.93</b> | <b>1 358.90</b> | <b>1 265.74</b> | <b>1 219.36</b> | <b>1 462.76</b> | <b>1 124.48</b> | <b>388.40</b> | <b>576.25</b> | <b>799.14</b> | <b>56.71</b> |
| <b>Africa</b>            | <b>7.33</b>   | <b>322.36</b>   | <b>24.66</b>    | <b>487.02</b>   | <b>59.41</b>    | <b>140.34</b>   | <b>39.90</b>  | <b>1.94</b>   | <b>123.92</b> | <b>23.55</b> |
| Benin                    |               |                 | 0.69            |                 |                 |                 |               |               |               |              |
| Comoros                  | 0.02          | 0.14            | 1.10            |                 |                 |                 |               |               |               |              |
| Cote d'Ivoire            |               |                 |                 |                 |                 |                 |               |               |               |              |
| Djibouti                 | 5.91          | 3.22            |                 |                 |                 | 32.09           |               |               |               | 19.16        |
| Egypt                    |               |                 |                 |                 |                 |                 | 0.00          |               |               | 23.30        |
| Ethiopia                 |               | 208.72          |                 | 21.01           |                 | 16.89           | 15.71         | 0.00          |               | 0.03         |
| Kenya                    |               | 108.33          |                 |                 | 482.00          | 0.91            | 92.42         | 39.89         |               | 0.02         |
| Madagascar               |               |                 |                 |                 | 0.01            |                 |               |               |               | 0.20         |
| Malawi                   |               |                 |                 |                 |                 | 0.03            |               |               |               |              |
| Rwanda                   |               |                 |                 |                 |                 | 0.05            |               |               |               |              |
| Tanzania                 |               |                 |                 |                 |                 | 27.37           | 0.03          |               |               |              |
| Zambia                   |               |                 |                 |                 |                 | 0.82            |               |               |               |              |
| Unspecified Africa       | 1.40          | 1.95            | 1.85            | 5.03            | 13.42           |                 |               | 0.33          |               | 19.61        |
| <b>Asia</b>              | <b>273.75</b> | <b>744.90</b>   | <b>216.21</b>   | <b>81.64</b>    | <b>95.76</b>    | <b>885.00</b>   | <b>193.06</b> | <b>319.00</b> | <b>0.61</b>   | <b>0.57</b>  |
| Bangladesh               |               |                 |                 |                 |                 | 0.00            |               |               |               |              |
| China                    |               |                 | 0.10            |                 | 0.11            | 106.52          | 42.92         |               |               |              |
| India                    |               |                 |                 |                 |                 |                 |               |               |               |              |
| Indonesia                | 258.33        | 744.87          | 216.11          | 58.03           | 83.62           | 681.36          | 150.09        | 318.99        | 0.07          | 0.13         |
| Kazakhstan               |               |                 |                 |                 | 0.09            | 0.04            | 0.01          | 0.35          | 0.35          | 0.04         |
| Mongolia                 |               |                 | 0.43            |                 |                 |                 |               |               | 0.18          | 0.01         |
| Philippines              |               |                 | 23.19           |                 | 1.49            | 96.72           |               |               |               | 0.39         |
| Viet Nam                 |               |                 |                 |                 |                 |                 | 0.00          |               |               |              |
| Unspecified Asia         | 15.41         | 0.03            |                 |                 | 10.55           | 0.32            |               |               |               |              |
| <b>C America + Carib</b> | <b>8.66</b>   | <b>161.28</b>   | <b>723.96</b>   | <b>327.17</b>   | <b>442.04</b>   | <b>98.44</b>    | <b>41.76</b>  | <b>10.28</b>  | <b>87.09</b>  | <b>28.51</b> |
| Costa Rica               |               | 157.98          | 718.93          |                 | 251.98          | 29.51           |               |               |               |              |
| Dominica                 | 8.42          |                 |                 | 151.37          | 11.15           |                 | 9.42          |               |               |              |
| El Salvador              |               |                 |                 |                 | 0.35            | 0.09            | 0.35          | 0.08          |               | 0.59         |
| Grenada                  |               |                 |                 |                 | 0.38            |                 |               | 0.35          |               |              |
| Guatemala                |               |                 |                 |                 | 0.91            |                 |               |               |               |              |
| Honduras                 |               |                 |                 |                 | 148.97          |                 |               |               |               |              |
| Jamaica                  |               |                 |                 |                 |                 | 0.00            |               |               |               |              |
| Montserrat               |               |                 | 2.28            | 9.07            |                 |                 |               |               |               |              |
| Nicaragua                | 0.11          | 0.01            | 1.06            | 98.02           | 1.16            |                 | 8.26          |               | 82.83         | 27.90        |
| Panama                   |               |                 |                 |                 |                 |                 |               |               |               |              |
| St Lucia                 |               | 1.02            |                 |                 | 10.67           |                 |               |               | 3.83          |              |
| St Vincent Gren          | 0.01          | 0.03            |                 | 34.68           |                 |                 |               |               |               |              |
| Unspecified C Am + Carib | 0.12          | 2.24            | 1.69            | 34.03           | 16.83           | 68.58           | 23.99         | 9.93          |               | 0.02         |
| <b>Eurasia</b>           | <b>0.28</b>   | <b>0.27</b>     | <b>84.26</b>    |                 |                 |                 | <b>109.73</b> |               | <b>285.00</b> |              |
| Armenia                  |               |                 | 10.05           |                 |                 |                 |               |               |               |              |
| Georgia                  | 0.03          |                 |                 |                 |                 | 0.25            |               |               |               |              |
| Türkiye                  | 0.24          | 0.27            | 74.21           |                 |                 | 109.48          |               |               | 285.00        |              |
| <b>Europe</b>            | <b>65.68</b>  | <b>0.43</b>     | <b>39.33</b>    | <b>289.28</b>   | <b>0.37</b>     |                 |               | <b>152.03</b> | <b>299.82</b> | <b>0.02</b>  |
| Bosnia Herzg             | 0.19          | 0.29            | 0.50            | 0.11            | 0.37            |                 |               |               |               |              |
| France                   |               |                 |                 |                 |                 |                 |               |               | 299.82        | 0.02         |
| North Macedonia          |               |                 |                 |                 |                 |                 |               |               | 7.87          |              |
| Iceland                  |               |                 | 37.86           | 288.85          |                 |                 |               |               | 98.79         |              |
| Netherlands              |               |                 |                 |                 |                 |                 |               |               | 45.38         |              |
| Portugal                 | 65.49         |                 |                 |                 |                 |                 |               |               |               |              |
| Serbia                   |               | 0.05            | 0.91            | 0.32            |                 |                 |               |               |               |              |
| Ukraine                  |               | 0.09            | 0.06            | 0.00            |                 |                 |               |               |               |              |
| <b>Middle East</b>       | <b>0.33</b>   |                 |                 |                 |                 |                 |               |               |               |              |
| Palestine                | 0.33          |                 |                 |                 |                 |                 |               |               |               |              |
| <b>North America</b>     | <b>55.42</b>  | <b>110.57</b>   |                 |                 |                 |                 | <b>0.81</b>   | <b>91.44</b>  | <b>0.30</b>   |              |
| Mexico                   | 55.42         | 110.57          |                 |                 |                 |                 | 0.81          | 91.44         | 0.30          |              |
| <b>Oceania</b>           | <b>0.41</b>   | <b>0.05</b>     |                 |                 | <b>0.67</b>     | <b>0.00</b>     | <b>0.02</b>   |               |               |              |
| Fiji                     |               |                 |                 |                 |                 | 0.00            | 0.02          |               |               |              |
| Papua N Guin             | 0.33          |                 |                 |                 |                 |                 |               |               |               |              |
| Vanuatu                  | 0.08          | 0.05            |                 |                 | 0.12            |                 |               |               |               |              |
| Unspecified Oceania      |               |                 |                 |                 | 0.56            |                 |               |               |               |              |

**Geothermal energy**  
**Énergie géothermique**  
**Energía geotérmica**

| (2021 USD million)           | 2013        | 2014         | 2015         | 2016         | 2017          | 2018        | 2019        | 2020        | 2021        | 2022        |
|------------------------------|-------------|--------------|--------------|--------------|---------------|-------------|-------------|-------------|-------------|-------------|
| <b>South America</b>         | <b>0.49</b> | <b>74.21</b> | <b>43.93</b> |              | <b>864.40</b> |             | <b>0.00</b> | <b>0.43</b> | <b>0.12</b> | <b>0.23</b> |
| Argentina                    |             |              |              |              |               |             |             |             |             | 0.01        |
| Bolivia                      | 0.49        | 23.45        |              |              | 563.92        |             |             |             |             |             |
| Brazil                       |             |              |              |              | 266.62        |             |             |             |             | 0.11        |
| Chile                        |             | 49.75        | 32.58        |              |               |             |             | 0.43        |             |             |
| Colombia                     |             | 1.01         | 11.34        |              | 33.61         |             | 0.00        |             |             |             |
| Ecuador                      |             |              | 0.01         |              | 0.25          |             |             |             | 0.12        | 0.11        |
| <b>Unspecified countries</b> |             |              | <b>22.83</b> | <b>34.25</b> | <b>0.10</b>   | <b>0.69</b> | <b>3.12</b> | <b>1.12</b> | <b>2.29</b> | <b>3.84</b> |



**Sustainable Development Goals**  
**(indicators 7.a.1 and 7.b.1/12.a.1)**

**Objetifs de Développement Durable**  
**(indicateurs 7.a.1 et 7.b.1/12.a.1)**

**Objetivos de Desarrollo Sostenible**  
**(indicadores 7.a.1 y 7.b.1/12.a.1)**

## SDG Indicator 7.a.1

*International financial flows to developing countries in support of clean energy research and development and renewable energy production, including in hybrid systems*

## ODD Indicateur 7.a.1

*Flux financiers internationaux à destination des pays en développement à l'appui de la recherche-développement dans le domaine des énergies propres et de la production d'énergie renouvelable, notamment au moyen de systèmes hybrides*

## ODS Indicador 7.a.1

*Corrientes financieras internacionales hacia los países en desarrollo para apoyar la investigación y el desarrollo de energías limpias y la producción de energía renovable, incluidos los sistemas híbridos*

| (2021 USD million) | 2013      | 2014      | 2015      | 2016      | 2017      | 2018      | 2019      | 2020      | 2021      | 2022      |
|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Total              | 13 321.84 | 18 076.29 | 12 329.42 | 28 454.13 | 22 839.84 | 17 680.26 | 12 757.79 | 12 151.09 | 12 384.89 | 15 432.51 |
| Africa             | 4 917.87  | 4 262.68  | 4 414.45  | 10 713.46 | 8 421.04  | 5 859.80  | 4 494.32  | 3 362.58  | 4 635.88  | 5 503.71  |
| Algeria            | 0.94      | 0.94      | 0.90      | 0.17      | 0.01      | 0.05      | 0.06      | 0.01      | 0.10      | 6.74      |
| Angola             |           | 124.56    | 0.02      | 4 951.88  |           | 0.13      | 0.06      | 0.07      | 0.00      | 82.84     |
| Benin              |           | 14.27     | 18.83     | 1.37      | 288.57    | 2.06      | 0.04      | 1.87      | 44.32     | 103.94    |
| Botswana           |           | 2.79      |           | 0.01      | 0.02      | 0.01      |           |           | 41.67     | 4.78      |
| Burkina Faso       | 35.72     | 42.21     | 0.19      | 32.07     | 22.79     | 38.45     | 51.16     | 161.76    | 61.09     | 8.48      |
| Burundi            | 105.52    | 154.33    | 2.71      | 0.06      | 18.82     | 10.78     | 98.66     | 118.38    |           |           |
| Cabo Verde         | 17.27     | 7.88      | 3.47      | 8.76      | 0.12      |           | 1.39      | 2.69      | 11.91     | 1.20      |
| Cameroon           | 0.02      | 12.23     | 104.49    | 85.28     | 191.62    | 1 112.10  | 8.14      | 47.36     | 7.35      | 7.19      |
| Cent Afr Rep       |           | 0.01      |           | 0.00      | 0.03      | 4.08      | 54.80     | 10.39     |           | 81.64     |
| Chad               | 0.04      | 0.02      | 0.02      | 45.25     | 0.01      |           | 21.18     | 11.94     | 11.87     | 199.59    |
| Comoros            | 0.02      | 0.14      | 1.10      | 0.01      | 12.23     | 0.16      | 18.27     | 17.97     | 0.04      | 28.81     |
| Congo DR           | 28.51     | 79.02     | 0.67      | 38.23     | 47.88     | 0.08      | 0.39      | 0.64      | 42.25     | 5.92      |
| Congo Rep          | 2.06      | 0.00      |           | 0.09      |           | 22.60     | 0.10      | 0.33      | 0.55      | 2.31      |
| Cote d'Ivoire      | 560.64    |           | 0.91      | 38.23     | 42.79     | 63.70     | 350.04    | 76.03     | 325.06    | 350.33    |
| Djibouti           | 8.99      | 3.44      | 0.93      | 1.32      | 1.72      | 33.37     | 29.46     | 1.46      | 0.37      | 57.64     |
| Egypt              | 174.91    | 0.08      | 263.70    | 331.89    | 2 062.53  | 26.02     | 365.26    | 257.95    | 160.44    | 823.25    |
| Eq Guinea          | 3.74      |           | 0.02      |           |           |           |           |           |           |           |
| Eritrea            |           | 15.79     |           |           | 93.82     | 0.03      |           | 0.00      |           | 0.26      |
| Eswatini           |           | 1.14      |           |           |           |           | 14.53     | 0.09      | 0.22      | 0.06      |
| Ethiopia           | 329.60    | 212.58    | 61.58     | 59.22     | 401.76    | 52.59     | 63.19     | 4.04      | 412.11    | 1.55      |
| Gabon              | 0.02      | 0.01      | 14.33     | 44.58     | 0.13      | 3.41      |           |           | 48.73     |           |
| Gambia             |           |           |           | 27.93     | 137.23    | 27.64     |           | 32.55     | 0.01      | 27.46     |
| Ghana              | 2.63      | 7.99      | 66.37     | 553.60    | 8.63      | 31.20     | 2.53      | 18.50     | 15.36     | 129.81    |
| Guinea             |           | 0.07      | 1.31      | 154.11    | 0.14      | 1 282.76  | 22.83     | 0.01      | 0.01      | 0.03      |
| Guinea Bissau      | 0.21      | 0.22      |           | 0.45      | 3.68      | 4.95      | 0.27      | 0.01      |           |           |
| Kenya              | 17.76     | 879.81    | 310.62    | 742.75    | 177.51    | 233.82    | 218.77    | 38.08     | 110.91    | 124.01    |
| Lesotho            | 0.10      | 10.13     | 0.04      | 0.00      |           | 0.97      | 14.78     | 81.15     | 0.42      | 31.38     |
| Liberia            | 97.01     | 0.20      | 271.78    | 11.62     | 50.44     | 7.02      | 41.76     | 9.62      | 3.56      | 11.01     |
| Libya              |           |           |           |           |           |           |           | 0.01      | 5.56      |           |
| Madagascar         | 3.02      | 15.44     | 5.27      | 24.75     | 30.09     | 5.81      | 48.08     | 30.54     | 7.13      | 34.14     |
| Malawi             | 38.23     | 2.03      | 64.06     | 0.38      | 4.14      | 18.17     | 113.68    | 3.84      | 17.12     | 80.40     |
| Mali               | 197.40    | 2.30      | 10.34     | 67.15     | 29.43     | 23.33     | 49.26     | 0.55      | 9.57      | 14.92     |
| Mauritania         | 230.84    | 6.60      | 0.13      | 195.17    | 20.16     | 0.76      | 13.66     | 30.28     | 0.02      | 13.02     |
| Mauritius          | 64.75     | 57.94     | 10.38     | 32.19     | 0.38      |           | 34.65     | 1.19      |           |           |
| Morocco            | 6.42      | 1 583.50  | 257.21    | 457.87    | 130.94    | 897.60    | 697.30    | 268.27    | 1.29      | 70.62     |
| Mozambique         | 42.58     | 10.15     | 5.86      | 34.96     | 88.46     | 10.38     | 205.54    | 205.05    | 83.69     | 121.14    |
| Namibia            |           | 0.08      |           | 12.74     | 40.90     | 46.19     | 0.02      | 0.00      | 0.18      | 9.00      |
| Niger              |           | 44.82     |           | 1.29      | 90.76     | 67.08     | 119.08    | 139.39    | 257.25    | 4.96      |
| Nigeria            | 1 106.74  | 27.05     | 51.35     | 66.36     | 162.69    | 108.52    | 192.74    | 279.18    | 34.60     | 11.65     |
| Rwanda             | 105.61    | 53.12     |           | 45.83     | 88.95     | 17.40     | 1.73      | 309.12    | 88.34     | 29.03     |
| Saint Helena       |           |           | 1.61      |           |           |           |           |           |           |           |
| Sao Tome Prn       | 5.53      | 0.13      | 0.39      | 0.34      | 0.01      |           |           | 14.80     | 2.22      | 14.33     |
| Senegal            | 179.33    | 0.13      | 42.33     | 362.98    | 47.80     | 106.73    | 73.58     | 115.67    | 27.15     | 88.37     |
| Seychelles         |           | 0.08      | 0.04      | 0.67      | 1.04      |           |           |           |           |           |
| Sierra Leone       |           | 9.19      |           | 32.02     | 0.40      | 0.25      | 0.19      | 1.59      | 15.31     | 31.33     |
| Somalia            | 3.71      |           | 0.36      | 0.89      | 0.02      | 3.71      | 23.57     | 0.22      | 150.01    | 14.50     |
| South Africa       | 670.59    | 221.70    | 850.50    | 813.47    | 1 760.07  | 520.03    | 180.18    | 343.41    | 333.02    | 1 210.09  |
| South Sudan        | 1.70      |           | 0.08      | 0.03      | 0.34      | 0.32      | 0.11      | 0.06      | 0.21      | 0.01      |
| Sudan              | 3.65      | 0.43      | 0.03      | 0.05      | 0.01      | 2.71      | 226.60    | 19.72     | 0.29      | 0.02      |
| Tanzania           | 185.09    | 49.99     | 40.21     | 166.76    | 28.74     | 22.30     | 6.42      | 103.47    | 339.21    | 89.21     |
| Togo               | 0.17      | 71.36     | 5.32      | 0.05      | 0.00      | 19.46     | 1.26      | 18.02     | 33.00     | 3.92      |
| Tunisia            | 10.33     |           | 9.89      | 50.96     | 5.24      | 20.88     | 125.40    | 22.36     | 20.52     | 42.89     |
| Uganda             | 45.60     | 36.03     | 1 666.91  | 206.90    | 102.48    | 572.71    | 74.89     | 23.02     | 4.22      | 566.03    |
| Zambia             | 207.72    | 258.44    | 85.98     | 120.88    | 1 937.16  | 58.40     | 87.96     | 13.77     | 11.33     | 23.82     |
| Zimbabwe           | 358.50    | 19.65     |           | 0.04      | 6.45      | 0.01      | 0.27      | 0.06      | 0.01      | 3.75      |
| Unspecified Africa | 64.64     | 239.59    | 165.27    | 917.77    | 391.20    | 269.49    | 812.84    | 526.09    | 1 896.30  | 936.31    |

## SDG Indicator 7.a.1

*International financial flows to developing countries in support of clean energy research and development and renewable energy production, including in hybrid systems*

## ODD Indicateur 7.a.1

*Flux financiers internationaux à destination des pays en développement à l'appui de la recherche-développement dans le domaine des énergies propres et de la production d'énergie renouvelable, notamment au moyen de systèmes hybrides*

## ODS Indicador 7.a.1

*Corrientes financieras internacionales hacia los países en desarrollo para apoyar la investigación y el desarrollo de energías limpias y la producción de energía renovable, incluidos los sistemas híbridos*

| (2021 USD million)       | 2013            | 2014            | 2015            | 2016            | 2017            | 2018            | 2019            | 2020            | 2021            | 2022            |
|--------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| <b>Asia</b>              | <b>3 758.77</b> | <b>5 260.87</b> | <b>3 691.79</b> | <b>7 542.19</b> | <b>6 924.21</b> | <b>6 665.37</b> | <b>3 512.58</b> | <b>3 912.46</b> | <b>4 502.88</b> | <b>3 200.72</b> |
| Afghanistan              | 294.86          | 7.70            | 5.44            | 0.94            | 55.22           | 78.32           | 5.00            | 52.55           | 0.01            | 64.44           |
| Bangladesh               | 113.08          | 99.27           | 8.54            | 458.15          | 266.70          | 258.88          | 150.39          | 25.68           | 323.73          | 112.12          |
| Bhutan                   | 40.33           | 2.15            | 138.13          | 0.06            | 0.02            | 0.12            | 0.77            | 0.80            | 0.80            | 19.94           |
| Cambodia                 | 14.90           | 0.47            | 8.67            | 171.52          | 4.12            | 17.24           | 9.35            | 20.78           | 32.45           | 13.52           |
| China                    | 329.53          | 251.55          | 100.76          | 1 396.18        | 407.71          | 348.86          | 220.77          | 121.83          | 101.39          | 54.82           |
| India                    | 616.14          | 738.76          | 991.44          | 2 397.40        | 944.80          | 1 915.21        | 861.75          | 1 335.37        | 1 361.22        | 627.34          |
| Indonesia                | 394.17          | 910.16          | 417.05          | 370.10          | 330.52          | 1 144.51        | 236.62          | 443.11          | 371.26          | 355.80          |
| Kazakhstan               | 0.02            | 40.88           | 53.08           | 50.22           | 164.22          | 274.25          | 647.16          | 29.82           | 45.07           | 0.41            |
| Korea DPR                | 0.04            |                 | 0.00            | 0.37            | 2.64            | 0.72            | 1.12            | 0.00            |                 |                 |
| Kyrgyzstan               | 14.70           |                 | 0.03            | 41.85           | 1.36            | 0.08            | 94.38           | 0.07            |                 | 50.62           |
| Lao PDR                  | 482.63          | 1 884.87        | 86.75           | 730.58          | 2 323.56        | 438.39          | 2.53            | 0.50            | 0.04            | 155.97          |
| Malaysia                 | 0.07            | 0.17            | 0.22            | 1.32            | 0.05            | 0.05            | 0.02            | 4.13            | 0.00            | 0.04            |
| Maldives                 |                 | 46.52           |                 | 6.80            | 89.20           | 0.02            | 6.25            | 4.40            | 23.45           | 27.29           |
| Mongolia                 | 0.16            | 0.01            | 0.89            | 211.30          | 92.26           | 127.18          | 11.61           | 113.77          | 2.32            | 0.87            |
| Myanmar                  | 63.94           | 10.76           | 63.21           | 4.34            | 132.53          | 24.73           | 44.48           | 68.33           | 11.65           | 18.25           |
| Nepal                    | 335.81          | 242.76          | 20.26           | 31.96           | 11.63           | 16.29           | 363.00          | 63.22           | 103.24          | 28.51           |
| Pakistan                 | 260.61          | 598.71          | 1 600.08        | 989.78          | 1 345.54        | 108.63          | 296.01          | 925.85          | 833.19          | 103.09          |
| Philippines              | 57.14           | 10.14           | 24.91           | 108.14          | 1.60            | 98.21           | 2.18            | 1.77            | 49.68           | 9.65            |
| Sri Lanka                | 2.54            | 131.02          | 0.49            | 67.13           | 231.52          | 1 315.20        | 0.18            | 0.61            | 0.48            | 18.46           |
| Tajikistan               | 146.85          | 0.46            | 0.20            | 0.10            | 365.93          |                 | 116.46          | 49.99           | 53.72           | 47.88           |
| Thailand                 | 59.58           | 4.72            | 60.76           | 0.45            | 2.01            | 324.30          | 108.52          | 58.28           | 173.71          | 33.84           |
| Timor Leste              | 0.50            | 0.01            | 0.00            | 1.15            |                 |                 | 0.01            | 1.87            | 3.01            | 0.22            |
| Turkmenistan             | 6.48            | 0.05            | 0.13            | 0.09            | 0.07            | 0.00            | 0.04            |                 | 0.03            | 2.46            |
| Uzbekistan               | 214.91          |                 | 0.30            | 0.76            | 67.68           | 1.04            | 2.15            | 227.46          | 102.00          | 756.22          |
| Viet Nam                 | 100.27          | 260.56          | 6.84            | 330.26          | 29.68           | 115.87          | 264.67          | 183.07          | 447.45          | 186.38          |
| Unspecified Asia         | 209.49          | 18.31           | 96.77           | 88.79           | 142.80          | 29.53           | 65.72           | 157.00          | 308.99          | 537.22          |
| Unspecified C and S Asia |                 | 0.86            | 0.03            | 0.06            |                 | 21.51           | 3.32            | 3.14            | 150.13          | 1.98            |
| <b>C America + Carib</b> | <b>857.04</b>   | <b>1 146.94</b> | <b>1 909.86</b> | <b>1 465.08</b> | <b>1 683.42</b> | <b>608.46</b>   | <b>697.72</b>   | <b>1 205.11</b> | <b>457.61</b>   | <b>1 252.08</b> |
| Antigua Barb             | 2.82            |                 | 7.55            |                 | 21.39           |                 |                 | 6.96            |                 |                 |
| Bahamas                  |                 |                 | 0.09            | 9.70            | 0.02            | 0.12            | 0.62            | 202.03          | 2.40            |                 |
| Barbados                 |                 |                 | 0.02            | 1.80            | 0.01            | 17.53           | 0.29            | 0.02            | 3.00            | 0.04            |
| Belize                   |                 |                 | 0.02            |                 |                 |                 |                 |                 |                 |                 |
| Costa Rica               | 134.41          | 160.44          | 893.97          | 189.74          | 251.99          | 30.54           | 0.75            | 319.20          | 15.56           | 65.00           |
| Cuba                     | 3.39            | 0.05            | 86.55           | 33.96           | 54.09           | 7.71            | 6.27            | 3.20            | 0.13            | 2.29            |
| Dominica                 | 8.42            | 1.86            |                 |                 | 14.51           | 1.80            | 9.79            |                 |                 |                 |
| Dominican Rep            | 0.02            | 0.47            | 0.53            | 89.68           | 90.52           | 0.40            | 46.75           | 1.03            | 105.74          | 91.25           |
| El Salvador              | 73.86           | 307.22          | 84.12           | 225.68          | 560.95          | 63.76           | 1.18            | 0.82            | 1.89            | 104.57          |
| Grenada                  |                 | 0.12            | 1.93            |                 | 0.79            |                 | 0.22            |                 | 3.35            |                 |
| Guatemala                | 19.50           | 25.93           | 0.02            | 15.82           | 0.91            | 12.65           | 62.48           | 0.26            | 13.06           | 4.86            |
| Haiti                    | 15.50           | 0.93            | 53.47           | 9.96            | 28.07           | 0.82            | 43.25           | 13.28           | 12.69           | 2.98            |
| Honduras                 | 385.62          | 193.36          | 422.45          | 81.63           | 269.59          | 109.57          | 1.05            | 87.90           | 17.70           | 403.13          |
| Jamaica                  |                 | 61.58           | 93.13           | 19.19           | 0.95            | 77.68           | 0.20            | 3.19            | 14.55           | 0.34            |
| Montserrat               | 0.64            | 1.09            | 2.28            | 9.08            | 0.16            |                 |                 |                 |                 |                 |
| Nicaragua                | 138.06          | 158.85          | 73.85           | 172.20          | 167.35          | 21.64           | 8.48            | 152.67          | 190.51          | 27.93           |
| Panama                   | 1.97            | 202.33          | 51.80           | 401.59          | 137.14          | 0.38            | 98.54           | 283.16          | 0.28            | 0.37            |
| St Lucia                 |                 | 1.02            | 0.01            |                 | 10.68           |                 |                 |                 | 6.83            | 0.63            |
| St Vincent Gren          | 0.01            | 0.03            |                 | 34.70           | 3.39            |                 |                 |                 |                 |                 |
| Trinidad Tobago          |                 |                 |                 |                 |                 |                 |                 | 0.27            |                 | 0.36            |
| Unspecified C Am Carib   | 72.82           | 31.65           | 138.12          | 170.36          | 70.91           | 263.81          | 380.52          | 131.13          | 69.93           | 548.33          |
| <b>Eurasia</b>           | <b>693.77</b>   | <b>812.27</b>   | <b>589.66</b>   | <b>1 833.15</b> | <b>477.06</b>   | <b>1 284.92</b> | <b>442.23</b>   | <b>420.36</b>   | <b>472.94</b>   | <b>559.08</b>   |
| Armenia                  | 28.34           | 10.22           | 25.47           | 132.54          | 1.73            | 30.33           | 60.70           | 27.96           | 52.85           | 1.19            |
| Azerbaijan               |                 | 0.02            | 85.03           | 0.01            | 0.02            |                 | 0.01            | 0.01            | 0.01            | 262.75          |
| Georgia                  | 10.79           | 214.60          | 7.48            | 99.10           | 33.29           | 50.79           | 27.00           | 0.71            | 5.13            | 42.20           |
| Türkiye                  | 654.63          | 587.43          | 471.67          | 1 601.50        | 442.03          | 1 203.81        | 354.52          | 391.69          | 414.96          | 252.95          |

## SDG Indicator 7.a.1

*International financial flows to developing countries in support of clean energy research and development and renewable energy production, including in hybrid systems*

## ODD Indicateur 7.a.1

*Flux financiers internationaux à destination des pays en développement à l'appui de la recherche-développement dans le domaine des énergies propres et de la production d'énergie renouvelable, notamment au moyen de systèmes hybrides*

## ODS Indicador 7.a.1

*Corrientes financieras internacionales hacia los países en desarrollo para apoyar la investigación y el desarrollo de energías limpias y la producción de energía renovable, incluidos los sistemas híbridos*

| (2021 USD million)   | 2013          | 2014          | 2015          | 2016          | 2017          | 2018          | 2019          | 2020          | 2021          | 2022          |
|----------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| <b>Europe</b>        | <b>291.57</b> | <b>397.25</b> | <b>170.69</b> | <b>305.25</b> | <b>592.57</b> | <b>821.32</b> | <b>924.94</b> | <b>112.04</b> | <b>380.89</b> | <b>470.87</b> |
| Albania              | 74.22         | 0.01          | 26.59         |               | 0.13          |               | 3.99          |               | 57.96         | 38.22         |
| Belarus              | 0.28          | 67.06         | 0.02          | 0.15          | 0.13          | 17.09         | 170.67        | 0.38          |               |               |
| Bosnia Herzg         | 104.48        | 176.57        | 7.05          | 3.99          | 89.19         | 1.48          | 22.29         | 3.98          | 0.49          | 0.81          |
| North Macedonia      | 20.69         |               |               | 0.01          | 5.18          | 8.88          | 0.00          | 23.31         | 11.96         | 138.46        |
| Kosovo               | 0.30          | 29.12         | 27.23         | 0.00          | 0.74          | 0.61          | 93.67         | 0.02          | 0.07          | 67.74         |
| Moldova Rep          | 25.20         | 0.30          | 0.55          | 0.26          | 0.24          | 0.10          | 0.25          | 0.09          | 0.35          | 0.91          |
| Montenegro           |               | 30.25         | 91.81         | 5.14          | 0.01          | 0.03          | 96.78         | 18.35         | 0.05          | 89.40         |
| Serbia               | 14.72         | 3.72          | 4.89          | 19.67         | 412.76        | 107.40        | 14.41         | 11.27         | 13.91         | 42.40         |
| Ukraine              | 51.48         | 89.49         | 12.56         | 268.64        | 82.27         | 679.14        | 520.68        | 44.65         | 284.82        | 66.21         |
| Unspecified Europe   | 0.20          | 0.73          |               | 7.41          | 1.92          | 6.57          | 2.21          | 9.99          | 11.28         | 26.71         |
| <b>Middle East</b>   | <b>165.17</b> | <b>453.30</b> | <b>374.68</b> | <b>930.60</b> | <b>589.29</b> | <b>266.32</b> | <b>133.58</b> | <b>54.28</b>  | <b>69.68</b>  | <b>218.79</b> |
| Iran IR              |               | 0.09          | 0.20          | 0.08          | 0.32          | 3.92          |               | 0.01          | 0.00          | 0.06          |
| Iraq                 |               | 0.02          |               | 285.29        | 122.23        |               |               | 0.53          | 0.98          | 4.21          |
| Jordan               | 155.70        | 170.17        | 267.90        | 603.89        | 437.18        | 129.74        | 81.42         | 39.47         | 24.71         | 21.16         |
| Lebanon              | 0.02          | 2.52          | 40.25         | 25.89         | 0.04          | 6.81          | 0.34          | 0.18          | 2.20          | 25.56         |
| Palestine            | 1.07          | 2.17          | 25.16         |               | 3.15          | 6.87          | 49.30         | 18.57         | 12.94         | 21.96         |
| Syrian AR            |               |               |               |               |               |               | 0.06          |               |               | 0.61          |
| Yemen                | 0.72          | 20.41         |               |               | 0.01          | 61.05         | 1.31          | 1.14          | 8.29          | 134.60        |
| Unspecified Mid East | 7.66          | 257.91        | 41.16         | 12.30         | 22.65         | 15.43         | 31.94         |               | 8.23          | 10.63         |
| <b>North America</b> | <b>51.46</b>  | <b>433.36</b> | <b>214.22</b> | <b>503.86</b> | <b>549.75</b> | <b>324.87</b> | <b>430.54</b> | <b>601.33</b> | <b>334.37</b> | <b>1.48</b>   |
| Mexico               | 51.46         | 433.36        | 214.22        | 503.86        | 549.75        | 324.87        | 430.54        | 601.33        | 334.37        | 1.48          |
| <b>Oceania</b>       | <b>68.67</b>  | <b>114.98</b> | <b>98.16</b>  | <b>55.62</b>  | <b>347.79</b> | <b>84.10</b>  | <b>145.67</b> | <b>21.79</b>  | <b>12.99</b>  | <b>98.93</b>  |
| Cook Is              | 8.32          | 16.67         | 19.84         | 4.87          |               |               |               |               |               |               |
| Fiji                 | 5.14          | 7.27          | 1.80          | 0.21          | 0.05          | 5.96          | 0.13          | 4.33          | 0.51          | 0.03          |
| Kiribati             | 5.13          | 4.74          |               | 0.00          |               | 0.93          |               | 13.29         |               | 0.06          |
| Marshall Is          | 1.41          | 0.01          | 4.53          | 0.26          | 44.55         |               |               |               | 2.70          | 0.03          |
| Micronesia           | 6.27          | 0.88          | 4.45          | 0.01          | 1.33          | 10.96         | 29.89         | 0.02          | 0.12          | 2.64          |
| Nauru                |               | 0.01          | 9.73          | 3.25          | 2.99          |               | 24.09         | 0.15          | 0.05          |               |
| New Caledon          |               |               |               |               | 64.87         |               |               |               |               |               |
| Niue                 | 0.40          |               | 0.01          | 0.28          | 3.97          |               | 0.11          |               |               | 0.04          |
| Palau                | 0.01          |               | 5.68          | 0.01          |               |               | 1.30          | 0.14          | 0.06          | 41.50         |
| Papua N Guin         | 7.03          | 0.00          | 9.42          | 35.44         | 0.93          | 0.15          | 0.14          | 0.10          | 0.17          | 11.03         |
| Samoa                | 5.14          | 35.90         | 0.01          | 0.00          | 2.24          |               |               |               | 0.02          | 0.03          |
| Solomon Is           | 0.01          | 14.37         | 7.58          | 7.79          | 177.82        | 22.77         | 50.82         | 1.09          | 1.76          | 0.02          |
| Tokelau              |               |               |               |               |               | 4.46          |               |               |               |               |
| Tonga                | 17.68         | 2.82          | 15.59         | 3.28          | 20.49         | 40.54         | 2.81          | 2.41          | 2.36          | 3.12          |
| Tuvalu               | 5.20          | 22.79         | 9.38          |               |               | 0.43          | 6.75          | 0.05          | 3.00          | 0.09          |
| Vanuatu              | 5.19          | 9.51          | 7.95          |               | 19.57         | 1.96          | 1.03          | 0.06          | 2.01          | 36.61         |
| Unspecified Oceania  | 1.75          |               | 2.19          | 0.24          | 8.97          | 0.39          | 24.13         | 0.14          | 0.23          | 3.73          |

## SDG Indicator 7.a.1

*International financial flows to developing countries in support of clean energy research and development and renewable energy production, including in hybrid systems*

## ODD Indicateur 7.a.1

*Flux financiers internationaux à destination des pays en développement à l'appui de la recherche-développement dans le domaine des énergies propres et de la production d'énergie renouvelable, notamment au moyen de systèmes hybrides*

## ODS Indicador 7.a.1

*Corrientes financieras internacionales hacia los países en desarrollo para apoyar la investigación y el desarrollo de energías limpias y la producción de energía renovable, incluidos los sistemas híbridos*

| (2021 USD million)           | 2013            | 2014            | 2015          | 2016            | 2017            | 2018            | 2019            | 2020            | 2021          | 2022            |
|------------------------------|-----------------|-----------------|---------------|-----------------|-----------------|-----------------|-----------------|-----------------|---------------|-----------------|
| <b>South America</b>         | <b>2 309.21</b> | <b>5 062.66</b> | <b>633.38</b> | <b>3 991.61</b> | <b>2 526.96</b> | <b>1 244.40</b> | <b>1 319.67</b> | <b>1 872.71</b> | <b>959.84</b> | <b>2 492.29</b> |
| Argentina                    | 52.22           | 2 783.41        | 124.43        | 273.90          | 561.92          | 427.78          | 506.21          | 93.01           | 2.90          | 88.82           |
| Bolivia                      | 81.65           | 39.61           | 2.07          | 1 264.51        | 647.85          | 89.60           | 0.95            | 3.35            | 0.26          | 3.70            |
| Brazil                       | 102.34          | 540.62          | 2.46          | 194.98          | 632.56          | 316.11          | 537.68          | 1 190.46        | 738.14        | 1 213.55        |
| Chile                        | 1 159.49        | 1 190.21        | 124.12        | 328.62          | 228.89          |                 |                 | 1.02            | 38.30         | 232.95          |
| Colombia                     | 0.32            | 58.54           | 24.85         | 1 592.79        | 203.51          | 158.02          | 166.95          | 53.39           | 64.01         | 247.47          |
| Ecuador                      | 371.92          | 6.68            | 34.07         | 147.06          | 40.66           | 0.94            | 65.04           | 74.62           | 6.03          | 95.18           |
| Guyana                       | 0.02            | 0.02            | 1.60          |                 |                 | 32.79           | 16.02           | 1.64            | 3.02          | 86.27           |
| Paraguay                     | 0.09            |                 |               | 0.40            |                 | 142.93          | 0.78            | 426.24          | 0.09          | 103.53          |
| Peru                         | 313.22          | 203.24          | 92.99         | 112.86          | 191.55          | 75.47           | 1.19            | 25.80           | 106.52        | 420.47          |
| Suriname                     | 0.02            | 0.00            |               |                 | 0.01            | 0.31            | 24.63           | 3.19            | 0.55          | 0.34            |
| Uruguay                      | 227.93          | 235.56          | 226.39        | 76.49           | 20.01           |                 | 0.22            |                 |               |                 |
| Venezuela                    | 0.01            | 4.76            | 0.39          |                 |                 | 0.43            |                 |                 | 0.04          |                 |
| <b>Unspecified countries</b> | <b>208.32</b>   | <b>131.99</b>   | <b>232.53</b> | <b>1 113.31</b> | <b>727.75</b>   | <b>520.71</b>   | <b>656.55</b>   | <b>588.44</b>   | <b>557.81</b> | <b>1 634.56</b> |

7.a.1 - International financial flows to developing countries in support of clean energy research and development and renewable energy production, including in hybrid systems.

7.a.1 - Flux financiers internationaux à destination des pays en développement à l'appui de la recherche-développement dans le domaine des énergies propres et de la production d'énergie renouvelable, notamment au moyen de systèmes hybrides.

7.a.1 - Corrientes financieras internacionales hacia los países en desarrollo para apoyar la investigación y el desarrollo de energías limpias y la producción de energía renovable, incluidos los sistemas híbridos

## SDG Indicator 7.b.1/12.a.1

*Installed renewable energy-generating capacity in developed and developing countries (in watts per capita)*

## ODD Indicateur 7.b.1/12.a.1

*Puissance installée de production d'énergie renouvelable dans les pays développés et en développement  
(en watts par capita)*

## ODS Indicador 7.b.1/12.a.1

*Capacidad instalada de generación de energía renovable en los países desarrollados y en desarrollo  
(en watts per cápita)*

| <b>(Watts per capita)</b>  | <b>2013</b>  | <b>2014</b>  | <b>2015</b>  | <b>2016</b>  | <b>2017</b>  | <b>2018</b>  | <b>2019</b>  | <b>2020</b>  | <b>2021</b>  | <b>2022</b>  |
|----------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| <b>World</b>               | <b>216.2</b> | <b>231.6</b> | <b>249.7</b> | <b>268.5</b> | <b>288.0</b> | <b>307.6</b> | <b>328.5</b> | <b>360.4</b> | <b>390.8</b> | <b>424.1</b> |
| <b>Africa</b>              | <b>26.9</b>  | <b>27.9</b>  | <b>29.1</b>  | <b>30.6</b>  | <b>34.1</b>  | <b>37.4</b>  | <b>38.1</b>  | <b>39.7</b>  | <b>40.3</b>  | <b>41.3</b>  |
| Algeria                    | 6.6          | 6.9          | 8.3          | 14.1         | 16.1         | 16.4         | 16.1         | 15.4         | 13.3         | 13.3         |
| Angola                     | 36.5         | 37.6         | 36.3         | 60.1         | 80.9         | 99.5         | 106.6        | 113.1        | 109.6        | 114.2        |
| Benin                      | 0.0          | 0.1          | 0.2          | 0.3          | 0.3          | 0.3          | 0.3          | 0.3          | 0.3          | 2.1          |
| Botswana                   | 0.8          | 0.8          | 0.9          | 1.4          | 1.4          | 1.5          | 2.4          | 2.3          | 2.4          | 2.4          |
| Burkina Faso               | 1.9          | 1.9          | 1.9          | 1.9          | 3.6          | 4.2          | 4.3          | 4.2          | 4.2          | 5.4          |
| Burundi                    | 5.4          | 5.2          | 5.1          | 5.1          | 4.8          | 4.7          | 4.6          | 4.5          | 4.9          | 5.9          |
| Cabo Verde                 | 60.8         | 60.4         | 60.3         | 59.8         | 59.2         | 61.9         | 61.3         | 60.7         | 60.2         | 59.6         |
| Cameroon                   | 34.0         | 33.1         | 32.2         | 31.3         | 30.5         | 29.8         | 32.1         | 31.2         | 30.4         | 29.6         |
| Central African Republic ( | 4.0          | 4.0          | 4.0          | 3.9          | 3.8          | 3.8          | 3.7          | 3.6          | 3.5          | 3.4          |
| Chad                       | 0.2          | 0.1          | 0.2          | 0.2          | 0.2          | 0.2          | 0.2          | 0.2          | 0.2          | 0.2          |
| Comoros (the)              | 2.1          | 2.0          | 2.0          | 1.9          | 1.9          | 1.9          | 1.8          | 1.8          | 1.8          | 6.5          |
| Democratic Republic of th  | 34.2         | 33.1         | 32.1         | 31.2         | 30.4         | 31.3         | 30.4         | 29.5         | 28.6         | 27.7         |
| Congo (the)                | 42.7         | 41.7         | 40.7         | 41.0         | 42.6         | 41.6         | 40.6         | 39.7         | 38.8         | 38.0         |
| Côte d'Ivoire              | 26.9         | 26.3         | 25.6         | 25.0         | 35.4         | 34.6         | 33.8         | 33.0         | 32.3         | 31.5         |
| Djibouti                   | 0.3          | 0.3          | 0.3          | 0.4          | 0.3          | 0.3          | 0.3          | 0.3          | 18.4         | 18.2         |
| Egypt                      | 37.0         | 36.2         | 37.4         | 36.9         | 37.4         | 46.2         | 53.9         | 55.2         | 57.3         | 57.0         |
| Equatorial Guinea          | 101.0        | 97.0         | 93.2         | 89.9         | 86.8         | 84.9         | 82.1         | 79.9         | 77.9         | 76.0         |
| Eritrea                    | 0.3          | 2.6          | 2.6          | 2.9          | 3.6          | 3.6          | 3.6          | 3.5          | 3.2          | 3.2          |
| Eswatini                   | 166.3        | 150.1        | 149.1        | 148.0        | 146.9        | 145.7        | 144.6        | 143.3        | 150.2        | 149.1        |
| Ethiopia                   | 22.9         | 22.4         | 25.6         | 25.2         | 40.4         | 40.1         | 39.0         | 40.2         | 39.6         | 45.3         |
| Gabon                      | 173.6        | 167.9        | 163.4        | 158.9        | 154.9        | 151.3        | 147.8        | 144.8        | 141.8        | 139.0        |
| Gambia (the)               | 1.4          | 1.5          | 1.5          | 1.5          | 1.4          | 1.4          | 1.6          | 1.5          | 1.5          | 1.5          |
| Ghana                      | 57.8         | 56.6         | 56.3         | 55.2         | 54.1         | 53.9         | 53.1         | 52.8         | 51.8         | 50.8         |
| Guinea                     | 11.7         | 11.4         | 31.8         | 31.0         | 30.2         | 30.4         | 29.3         | 45.7         | 61.3         | 59.8         |
| Guinea-Bissau              |              |              | 0.2          | 0.2          | 0.2          | 0.6          | 0.6          | 0.6          | 0.6          | 0.6          |
| Kenya                      | 24.6         | 27.7         | 33.5         | 34.2         | 34.3         | 41.3         | 41.0         | 44.1         | 46.5         | 49.0         |
| Lesotho                    | 36.0         | 35.6         | 35.2         | 34.8         | 34.4         | 34.0         | 33.5         | 33.1         | 32.8         | 32.4         |
| Liberia                    | 1.1          | 1.1          | 1.1          | 5.7          | 19.9         | 19.6         | 19.2         | 18.8         | 18.4         | 18.0         |
| Libya                      | 0.8          | 0.8          | 0.8          | 0.8          | 0.8          | 0.8          | 0.8          | 0.8          | 0.9          | 0.9          |
| Madagascar                 | 7.1          | 7.0          | 7.0          | 6.9          | 6.8          | 7.3          | 7.2          | 7.0          | 6.8          | 6.7          |
| Malawi                     | 24.7         | 24.2         | 23.8         | 23.2         | 23.0         | 22.7         | 25.0         | 24.3         | 27.7         | 27.0         |
| Mali                       | 21.0         | 20.8         | 20.3         | 19.7         | 19.2         | 18.6         | 18.1         | 19.9         | 19.2         | 25.0         |
| Mauritania                 | 6.0          | 5.9          | 13.3         | 17.1         | 16.6         | 28.4         | 27.8         | 27.1         | 26.4         | 26.1         |
| Mauritius                  | 112.8        | 112.9        | 132.9        | 145.3        | 150.7        | 182.9        | 201.9        | 208.2        | 209.5        | 209.4        |
| Morocco                    | 54.3         | 62.6         | 66.5         | 68.8         | 71.5         | 91.1         | 90.1         | 96.0         | 98.1         | 99.4         |
| Mozambique                 | 87.5         | 84.9         | 82.5         | 80.1         | 77.7         | 75.5         | 74.6         | 72.7         | 70.7         | 70.1         |
| Namibia                    | 156.5        | 154.7        | 154.0        | 165.0        | 180.7        | 187.7        | 206.0        | 204.1        | 200.8        | 207.6        |
| Niger (the)                | 0.3          | 0.3          | 0.3          | 0.4          | 0.4          | 1.2          | 1.2          | 1.1          | 1.1          | 2.4          |
| Nigeria                    | 12.1         | 11.8         | 11.6         | 11.3         | 11.1         | 10.8         | 10.6         | 10.4         | 10.3         | 10.1         |
| Rwanda                     | 5.6          | 6.8          | 9.1          | 9.3          | 9.5          | 9.6          | 10.5         | 11.0         | 10.8         | 10.9         |
| Sao Tome and Principe      | 9.9          | 9.7          | 9.5          | 10.1         | 10.9         | 10.7         | 10.6         | 10.3         | 9.5          | 9.3          |
| Senegal                    | 2.4          | 2.4          | 2.4          | 4.3          | 8.8          | 11.2         | 15.8         | 21.7         | 25.1         | 25.8         |
| Seychelles                 | 64.9         | 71.0         | 74.7         | 79.1         | 84.9         | 98.1         | 96.9         | 122.3        | 182.2        | 227.8        |
| Sierra Leone               | 7.8          | 12.7         | 12.4         | 12.1         | 12.8         | 12.6         | 12.3         | 12.0         | 11.8         | 12.1         |
| Somalia                    | 0.2          | 0.2          | 0.2          | 0.5          | 0.7          | 0.7          | 0.7          | 1.2          | 1.6          | 2.9          |
| South Africa               | 27.9         | 49.6         | 61.5         | 82.5         | 115.8        | 138.1        | 138.1        | 162.7        | 173.9        | 175.1        |
| South Sudan                | 0.0          | 0.0          | 0.0          | 0.0          | 0.0          | 0.1          | 0.1          | 0.1          | 0.1          | 1.3          |
| Sudan (the)                | 42.7         | 41.6         | 40.4         | 39.3         | 38.3         | 41.4         | 40.7         | 40.5         | 39.8         | 39.9         |
| United Republic of Tanzar  | 13.0         | 12.9         | 12.6         | 12.3         | 11.9         | 11.6         | 11.4         | 11.1         | 10.7         | 10.4         |
| Togo                       | 9.4          | 9.1          | 8.9          | 8.7          | 8.6          | 8.7          | 8.7          | 8.7          | 14.3         | 14.0         |
| Tunisia                    | 24.0         | 27.3         | 28.5         | 29.1         | 29.6         | 31.4         | 32.5         | 33.4         | 33.1         | 41.1         |
| Uganda                     | 21.3         | 21.2         | 20.9         | 20.2         | 20.6         | 21.9         | 27.4         | 26.9         | 26.1         | 25.9         |
| Zambia                     | 151.1        | 146.3        | 142.2        | 145.0        | 141.1        | 136.9        | 138.1        | 134.2        | 146.1        | 165.0        |
| Zimbabwe                   | 63.4         | 62.1         | 61.8         | 60.8         | 60.0         | 79.0         | 77.6         | 76.2         | 75.5         | 74.8         |

## SDG Indicator 7.b.1/12.a.1

*Installed renewable energy-generating capacity in developed and developing countries (in watts per capita)*

## ODD Indicateur 7.b.1/12.a.1

*Puissance installée de production d'énergie renouvelable dans les pays développés et en développement  
(en watts par capita)*

## ODS Indicador 7.b.1/12.a.1

*Capacidad instalada de generación de energía renovable en los países desarrollados y en desarrollo  
(en watts per cápita)*

| <b>(Watts per capita)</b>      | <b>2013</b>  | <b>2014</b>  | <b>2015</b>  | <b>2016</b>  | <b>2017</b>  | <b>2018</b>  | <b>2019</b>  | <b>2020</b>  | <b>2021</b>  | <b>2022</b>  |
|--------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| <b>Asia</b>                    | <b>137.3</b> | <b>155.4</b> | <b>175.7</b> | <b>196.1</b> | <b>220.1</b> | <b>243.1</b> | <b>264.7</b> | <b>304.7</b> | <b>338.5</b> | <b>377.1</b> |
| Afghanistan                    | 9.3          | 9.1          | 9.0          | 10.1         | 10.4         | 10.1         | 10.1         | 9.8          | 9.7          | 12.0         |
| Bangladesh                     | 2.5          | 2.6          | 2.8          | 2.5          | 2.8          | 2.9          | 3.1          | 3.5          | 4.4          | 4.7          |
| Bhutan                         | 2 041.9      | 2 021.2      | 2 172.8      | 2 154.0      | 2 135.8      | 2 119.4      | 3 042.8      | 3 022.9      | 3 003.8      | 2 984.7      |
| Brunei Darussalam              | 2.9          | 2.9          | 2.9          | 2.8          | 2.8          | 2.8          | 2.8          | 3.3          | 10.9         | 10.9         |
| Cambodia                       | 47.8         | 64.1         | 63.3         | 62.8         | 67.1         | 88.1         | 93.0         | 103.1        | 105.4        | 109.7        |
| China                          | 261.3        | 299.3        | 343.8        | 385.9        | 440.2        | 490.8        | 533.7        | 631.3        | 715.5        | 814.1        |
| China, Hong Kong Special       | 0.1          | 0.1          | 2.3          | 6.3          | 6.3          | 19.0         | 19.0         | 19.3         | 19.9         | 32.6         |
| Chinese Taipei                 | 150.1        | 160.1        | 170.8        | 187.0        | 208.9        | 250.3        | 314.6        | 388.2        | 471.1        | 578.1        |
| India                          | 49.3         | 55.0         | 59.4         | 67.5         | 77.7         | 86.4         | 92.9         | 96.3         | 104.6        | 115.0        |
| Indonesia                      | 32.6         | 32.9         | 33.1         | 34.6         | 35.8         | 36.7         | 38.2         | 38.6         | 42.1         | 45.7         |
| Japan                          | 360.9        | 440.1        | 530.3        | 599.6        | 664.6        | 723.2        | 789.1        | 866.4        | 929.5        | 980.3        |
| Kazakhstan                     | 149.5        | 155.4        | 157.4        | 157.7        | 158.3        | 166.6        | 192.3        | 220.8        | 236.3        | 261.3        |
| Democratic People's Repu       | 171.6        | 171.3        | 177.8        | 186.4        | 188.0        | 188.3        | 187.6        | 189.7        | 189.3        | 188.6        |
| Republic of Korea (the)        | 86.4         | 115.8        | 146.0        | 189.7        | 233.8        | 285.9        | 376.2        | 475.6        | 536.7        | 600.7        |
| Kyrgyzstan                     | 624.4        | 631.3        | 621.6        | 610.9        | 602.6        | 590.2        | 580.9        | 571.8        | 425.9        | 419.3        |
| Lao People's Democratic F      | 449.7        | 486.1        | 641.6        | 715.6        | 740.8        | 781.9        | 885.0        | 1 115.8      | 1 203.3      | 1 278.2      |
| Malaysia                       | 189.8        | 209.0        | 243.4        | 253.5        | 229.5        | 232.1        | 242.7        | 258.2        | 265.0        | 266.5        |
| Maldives                       | 7.9          | 12.7         | 14.2         | 19.6         | 25.8         | 36.5         | 44.1         | 55.1         | 62.3         | 71.5         |
| Mongolia                       | 29.7         | 29.2         | 28.5         | 32.0         | 58.1         | 79.5         | 85.5         | 84.9         | 83.6         | 82.3         |
| Myanmar                        | 56.6         | 59.6         | 63.5         | 64.5         | 65.0         | 64.7         | 65.1         | 64.5         | 64.0         | 64.0         |
| Nepal                          | 27.8         | 28.3         | 30.2         | 30.7         | 35.5         | 39.4         | 43.1         | 47.0         | 69.8         | 76.7         |
| Pakistan                       | 36.8         | 38.0         | 38.5         | 41.2         | 42.6         | 55.5         | 55.3         | 55.7         | 55.7         | 59.1         |
| Philippines (the)              | 48.7         | 52.1         | 54.6         | 59.8         | 60.2         | 60.8         | 61.3         | 62.2         | 64.2         | 66.4         |
| Singapore                      | 31.4         | 37.5         | 44.4         | 53.8         | 56.7         | 65.4         | 81.6         | 89.9         | 116.7        | 141.6        |
| Sri Lanka                      | 81.8         | 86.3         | 88.0         | 91.6         | 95.8         | 101.7        | 107.8        | 113.0        | 124.9        | 130.9        |
| Tajikistan                     | 591.7        | 604.7        | 590.5        | 577.5        | 564.5        | 564.6        | 564.8        | 552.6        | 541.0        | 530.0        |
| Thailand                       | 96.0         | 105.4        | 112.4        | 132.7        | 143.1        | 157.7        | 164.1        | 165.7        | 170.3        | 170.1        |
| Timor-Leste                    | 0.9          | 0.9          | 0.8          | 0.8          | 0.6          | 0.6          | 0.5          | 0.5          | 0.5          | 0.6          |
| Turkmenistan                   | 0.2          | 0.2          | 0.2          | 0.2          | 0.2          | 0.2          | 0.2          | 0.2          | 0.3          | 0.3          |
| Uzbekistan                     | 60.8         | 61.5         | 60.8         | 59.9         | 58.3         | 59.1         | 58.0         | 60.4         | 63.3         | 66.5         |
| Viet Nam                       | 165.1        | 167.3        | 175.8        | 187.8        | 193.7        | 197.2        | 272.3        | 397.1        | 438.4        | 461.6        |
| <b>Central America and the</b> | <b>109.7</b> | <b>116.5</b> | <b>133.9</b> | <b>148.4</b> | <b>155.3</b> | <b>162.8</b> | <b>175.0</b> | <b>179.0</b> | <b>183.8</b> | <b>188.7</b> |
| Anguilla                       | 4.5          | 83.0         | 80.7         | 153.4        | 151.3        | 77.2         | 100.3        | 98.9         | 97.9         | 97.2         |
| Antigua and Barbuda            | 4.5          | 4.5          | 37.8         | 38.8         | 47.3         | 95.1         | 94.6         | 138.8        | 138.0        | 137.2        |
| Aruba                          | 307.2        | 356.2        | 365.4        | 363.3        | 361.3        | 430.3        | 428.4        | 427.8        | 428.0        | 428.4        |
| Bahamas (the)                  | 3.4          | 5.0          | 5.9          | 6.2          | 6.1          | 5.9          | 8.0          | 8.0          | 17.8         | 22.1         |
| Barbados                       | 1.7          | 4.8          | 11.3         | 53.8         | 58.9         | 61.9         | 118.7        | 175.3        | 227.5        | 248.7        |
| Belize                         | 191.4        | 187.2        | 183.3        | 179.6        | 197.4        | 244.6        | 254.5        | 250.7        | 247.5        | 244.3        |
| Bonaire, Sint Eustatius and    | 505.8        | 493.1        | 493.4        | 562.7        | 641.7        | 671.8        | 695.2        | 679.7        | 665.6        | 657.7        |
| British Virgin Islands         | 18.1         | 17.9         | 43.8         | 48.7         | 48.1         | 48.0         | 58.0         | 63.9         | 63.5         | 63.1         |
| Cayman Islands                 |              |              |              | 44.2         | 137.9        | 152.8        | 167.8        | 189.2        | 201.1        | 199.4        |
| Costa Rica                     | 447.0        | 474.4        | 508.6        | 590.1        | 597.2        | 611.4        | 618.5        | 609.9        | 617.6        | 605.8        |
| Cuba                           | 49.0         | 52.6         | 55.4         | 53.8         | 59.6         | 66.9         | 95.9         | 110.8        | 113.9        | 116.6        |
| Curaçao                        | 199.4        | 224.5        | 236.6        | 240.9        | 336.0        | 316.3        | 302.6        | 315.5        | 313.8        | 312.4        |
| Dominica                       | 103.3        | 102.5        | 101.6        | 107.2        | 106.7        | 101.6        | 100.7        | 99.9         | 99.4         | 98.9         |
| Dominican Republic (the)       | 71.7         | 71.9         | 72.1         | 83.3         | 85.4         | 97.5         | 126.4        | 131.8        | 149.6        | 166.7        |
| Grenada                        | 5.1          | 6.6          | 9.3          | 18.9         | 19.5         | 22.4         | 27.3         | 29.8         | 30.0         | 29.8         |
| Guadeloupe                     | 360.8        | 357.1        | 370.0        | 376.0        | 394.6        | 443.8        | 485.1        | 524.0        | 551.7        | 552.1        |
| Guatemala                      | 107.2        | 114.1        | 136.4        | 159.8        | 162.3        | 168.5        | 167.8        | 165.3        | 153.3        | 151.6        |
| Haiti                          | 5.6          | 5.6          | 5.5          | 5.5          | 5.4          | 7.3          | 7.2          | 7.1          | 7.1          | 7.0          |
| Jamaica                        | 37.2         | 37.8         | 38.5         | 68.4         | 78.2         | 78.1         | 91.2         | 91.0         | 90.8         | 90.8         |
| Martinique                     | 169.9        | 171.3        | 181.3        | 186.8        | 193.0        | 299.5        | 346.5        | 354.4        | 359.1        | 360.4        |
| Montserrat                     |              |              |              |              |              |              | 55.5         | 55.6         | 226.4        | 227.8        |
| Nicaragua                      | 90.9         | 96.0         | 97.4         | 103.8        | 104.3        | 102.8        | 110.0        | 108.5        | 107.2        | 107.5        |
| Panama                         | 412.8        | 448.6        | 527.3        | 546.4        | 552.3        | 558.8        | 555.0        | 553.8        | 600.7        | 635.0        |
| Puerto Rico                    | 75.2         | 77.5         | 116.5        | 129.1        | 149.1        | 152.1        | 162.9        | 178.2        | 211.8        | 258.7        |
| Saint Barthélemy               |              |              |              | 2.4          | 2.4          | 2.3          | 2.3          | 4.0          | 4.0          | 3.9          |
| Saint Kitts and Nevis          | 76.0         | 76.0         | 76.0         | 86.5         | 86.5         | 87.2         | 88.3         | 109.4        | 109.5        | 109.4        |
| Saint Lucia                    | 0.3          | 0.6          | 4.3          | 5.7          | 5.7          | 22.5         | 22.5         | 22.4         | 22.3         | 22.3         |
| Sint Maarten (Dutch Part)      |              |              |              |              |              |              |              |              |              |              |
| Saint Martin (French Part)     | 39.3         | 45.4         | 74.2         | 51.7         | 2.9          | 3.0          | 15.1         | 30.7         | 31.3         | 31.5         |
| Saint Vincent and the Gre      | 54.8         | 60.3         | 76.5         | 78.5         | 79.5         | 80.0         | 86.8         | 88.7         | 89.6         | 90.6         |
| Trinidad and Tobago            | 2.8          | 2.8          | 2.7          | 2.7          | 2.7          | 2.7          | 2.6          | 2.6          | 2.7          | 2.7          |
| Turks and Caicos Islands       |              |              |              | 0.8          | 0.8          | 4.8          | 10.6         | 21.8         | 21.2         | 72.0         |
| United States Virgin Islanc    | 9.2          | 48.9         | 90.0         | 90.8         | 50.0         | 99.6         | 100.1        | 100.5        | 100.8        | 101.5        |

## SDG Indicator 7.b.1/12.a.1

*Installed renewable energy-generating capacity in developed and developing countries (in watts per capita)*

## ODD Indicateur 7.b.1/12.a.1

*Puissance installée de production d'énergie renouvelable dans les pays développés et en développement  
(en watts par capita)*

## ODS Indicador 7.b.1/12.a.1

*Capacidad instalada de generación de energía renovable en los países desarrollados y en desarrollo  
(en watts per cápita)*

| <b>(Watts per capita)</b>  | <b>2013</b>  | <b>2014</b>  | <b>2015</b>  | <b>2016</b>  | <b>2017</b>  | <b>2018</b>  | <b>2019</b>  | <b>2020</b>    | <b>2021</b>    | <b>2022</b>    |
|----------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|----------------|----------------|----------------|
| <b>Eurasia</b>             | <b>343.3</b> | <b>353.1</b> | <b>365.9</b> | <b>375.6</b> | <b>393.8</b> | <b>408.6</b> | <b>420.9</b> | <b>445.5</b>   | <b>467.9</b>   | <b>481.4</b>   |
| Armenia                    | 445.2        | 450.1        | 447.9        | 459.0        | 467.1        | 478.3        | 483.6        | 500.2          | 535.4          | 569.4          |
| Azerbaijan                 | 117.0        | 115.0        | 117.0        | 118.6        | 118.5        | 125.8        | 126.0        | 126.0          | 127.6          | 129.3          |
| Georgia                    | 714.5        | 630.6        | 630.6        | 649.8        | 727.4        | 720.0        | 691.3        | 731.1          | 799.9          | 836.5          |
| Russian Federation (the)   | 351.7        | 357.5        | 357.9        | 356.9        | 358.7        | 361.2        | 369.9        | 379.2          | 389.1          | 393.1          |
| Türkiye                    | 333.7        | 357.7        | 395.7        | 425.2        | 472.0        | 510.0        | 531.7        | 584.7          | 627.2          | 655.5          |
| <b>Europe</b>              | <b>702.1</b> | <b>736.4</b> | <b>777.5</b> | <b>815.8</b> | <b>855.3</b> | <b>895.0</b> | <b>956.0</b> | <b>1 013.0</b> | <b>1 084.8</b> | <b>1 177.0</b> |
| Albania                    | 617.2        | 598.4        | 624.1        | 664.3        | 711.8        | 732.5        | 757.7        | 840.4          | 886.8          | 892.6          |
| Andorra                    | 714.6        | 714.7        | 714.0        | 706.4        | 697.3        | 694.4        | 694.1        | 696.1          | 700.4          | 693.4          |
| Austria                    | 2 027.5      | 2 087.4      | 2 137.4      | 2 213.3      | 2 227.5      | 2 304.8      | 2 339.4      | 2 375.0        | 2 478.2        | 2 620.3        |
| Belarus                    | 7.7          | 8.4          | 10.0         | 22.9         | 30.9         | 40.2         | 42.9         | 50.9           | 51.3           | 65.9           |
| Belgium                    | 518.2        | 535.2        | 566.1        | 591.6        | 651.7        | 724.9        | 826.3        | 975.0          | 1 023.9        | 1 123.0        |
| Bosnia and Herzegovina     | 470.9        | 481.2        | 489.6        | 510.1        | 525.7        | 554.7        | 574.4        | 588.5          | 623.2          | 646.2          |
| Bulgaria                   | 551.0        | 559.3        | 565.8        | 572.0        | 597.1        | 606.5        | 612.4        | 625.2          | 658.1          | 767.5          |
| Croatia                    | 574.3        | 601.5        | 637.7        | 661.4        | 695.5        | 716.0        | 743.0        | 794.4          | 859.6          | 891.5          |
| Cyprus                     | 164.7        | 188.0        | 205.3        | 210.1        | 229.6        | 237.0        | 261.8        | 322.9          | 390.0          | 480.8          |
| Czechia                    | 389.5        | 396.5        | 400.5        | 400.1        | 406.2        | 405.5        | 415.0        | 422.6          | 433.1          | 470.2          |
| Denmark                    | 1 170.3      | 1 194.5      | 1 252.1      | 1 298.4      | 1 428.2      | 1 543.7      | 1 583.9      | 1 658.9        | 1 858.8        | 2 102.2        |
| Estonia                    | 393.4        | 427.0        | 451.4        | 461.3        | 466.9        | 460.3        | 539.2        | 623.3          | 761.5          | 888.2          |
| Faroe Islands              | 989.5        | 1 230.0      | 1 227.3      | 1 204.2      | 1 186.7      | 1 100.0      | 1 019.9      | 1 133.9        | 1 215.0        | 1 210.4        |
| Finland                    | 1 014.2      | 1 052.3      | 1 120.9      | 1 227.6      | 1 363.8      | 1 371.2      | 1 428.9      | 1 586.8        | 1 727.6        | 2 182.8        |
| France                     | 614.4        | 641.4        | 674.3        | 704.1        | 748.9        | 789.4        | 832.7        | 867.9          | 935.9          | 1 011.7        |
| North Macedonia            | 296.8        | 323.9        | 339.7        | 341.1        | 346.3        | 348.3        | 350.8        | 388.3          | 390.6          | 392.4          |
| Germany                    | 1 025.5      | 1 103.4      | 1 192.2      | 1 268.5      | 1 361.8      | 1 434.4      | 1 504.2      | 1 580.3        | 1 661.3        | 1 780.3        |
| Greece                     | 702.9        | 737.4        | 753.1        | 783.6        | 812.3        | 848.3        | 938.4        | 1 038.9        | 1 192.5        | 1 345.0        |
| Hungary                    | 75.7         | 103.8        | 109.4        | 106.8        | 125.0        | 166.7        | 234.1        | 310.1          | 402.2          | 393.8          |
| Iceland                    | 8 184.3      | 8 097.6      | 8 027.4      | 7 919.9      | 7 890.6      | 8 108.8      | 7 953.5      | 7 852.8        | 7 775.4        | 7 721.9        |
| Ireland                    | 485.4        | 560.7        | 591.6        | 660.9        | 770.4        | 836.9        | 924.9        | 958.5          | 966.4          | 1 015.1        |
| Italy                      | 810.1        | 821.0        | 837.0        | 851.6        | 868.7        | 887.8        | 910.3        | 932.6          | 959.7          | 1 014.5        |
| Kosovo                     | 24.4         | 24.7         | 25.1         | 46.4         | 69.7         | 70.6         | 82.3         | 92.1           | 158.3          | 161.9          |
| Latvia                     | 866.6        | 884.0        | 894.5        | 900.8        | 918.8        | 919.2        | 952.6        | 962.4          | 973.0          | 1 061.9        |
| Lithuania                  | 174.0        | 182.0        | 233.8        | 261.6        | 271.0        | 290.7        | 301.5        | 332.2          | 415.7          | 588.0          |
| Luxembourg                 | 388.5        | 405.3        | 419.3        | 515.5        | 533.4        | 532.9        | 622.6        | 682.1          | 788.8          | 883.8          |
| Malta                      | 72.2         | 129.2        | 170.6        | 210.1        | 242.8        | 277.8        | 317.4        | 373.6          | 399.3          | 423.2          |
| Republic of Moldova (the)  | 19.6         | 20.7         | 21.1         | 21.9         | 25.6         | 33.7         | 35.3         | 37.7           | 49.9           | 77.9           |
| Montenegro                 | 993.5        | 1 029.0      | 1 044.1      | 1 055.1      | 1 180.8      | 1 183.9      | 1 259.9      | 1 299.2        | 1 301.7        | 1 334.6        |
| Netherlands (Kingdom of)   | 247.2        | 274.9        | 337.3        | 420.6        | 461.2        | 570.8        | 723.8        | 1 070.3        | 1 348.3        | 1 624.8        |
| Norway                     | 6 298.7      | 6 277.2      | 6 241.1      | 6 266.3      | 6 300.7      | 6 474.7      | 6 714.6      | 7 063.1        | 7 293.4        | 7 296.3        |
| Poland                     | 132.5        | 146.1        | 179.5        | 204.5        | 207.1        | 215.5        | 243.2        | 319.4          | 429.6          | 533.0          |
| Portugal                   | 1 064.9      | 1 111.9      | 1 172.5      | 1 278.3      | 1 313.7      | 1 336.6      | 1 372.0      | 1 379.6        | 1 464.9        | 1 589.8        |
| Romania                    | 503.2        | 557.7        | 563.2        | 563.8        | 565.8        | 569.6        | 572.1        | 572.0          | 575.3          | 566.7          |
| Serbia                     | 308.2        | 321.1        | 324.5        | 328.4        | 332.5        | 362.6        | 393.1        | 397.9          | 405.2          | 422.9          |
| Slovakia                   | 435.6        | 439.1        | 439.4        | 441.2        | 438.5        | 427.8        | 445.7        | 435.6          | 441.7          | 426.3          |
| Slovenia                   | 659.6        | 676.7        | 681.9        | 674.2        | 704.6        | 699.9        | 715.7        | 761.1          | 804.0          | 885.9          |
| Spain                      | 1 004.6      | 1 008.3      | 1 027.5      | 1 028.5      | 1 029.3      | 1 031.9      | 1 158.5      | 1 210.1        | 1 305.8        | 1 427.9        |
| Sweden                     | 2 554.2      | 2 618.9      | 2 728.0      | 2 793.5      | 2 801.6      | 2 871.4      | 3 034.3      | 3 090.8        | 3 305.9        | 3 606.3        |
| Switzerland                | 1 781.4      | 1 787.8      | 1 816.0      | 1 941.8      | 2 017.2      | 2 051.8      | 2 078.7      | 2 122.3        | 2 188.9        | 2 256.8        |
| United Kingdom of Great    | 311.4        | 384.1        | 472.2        | 539.7        | 606.2        | 660.2        | 698.1        | 708.3          | 732.4          | 785.4          |
| Ukraine                    | 127.3        | 134.0        | 135.7        | 138.3        | 146.2        | 167.7        | 275.7        | 313.5          | 342.8          | 375.8          |
| <b>Middle East</b>         | <b>60.7</b>  | <b>65.4</b>  | <b>63.6</b>  | <b>65.8</b>  | <b>66.0</b>  | <b>70.5</b>  | <b>80.7</b>  | <b>85.5</b>    | <b>93.1</b>    | <b>105.6</b>   |
| Bahrain                    | 0.9          | 4.3          | 4.2          | 4.7          | 4.6          | 4.7          | 6.7          | 7.1            | 8.2            | 8.4            |
| Iran (Islamic Republic of) | 132.3        | 137.0        | 127.3        | 129.4        | 134.5        | 135.9        | 136.4        | 136.3          | 135.7          | 140.0          |
| Iraq                       | 64.9         | 62.9         | 61.2         | 59.7         | 40.2         | 39.3         | 38.4         | 37.5           | 36.6           | 35.9           |
| Israel                     | 61.2         | 87.2         | 104.5        | 118.7        | 128.6        | 166.5        | 255.6        | 309.6          | 410.1          | 494.6          |
| Jordan                     | 2.2          | 2.0          | 16.1         | 51.6         | 61.1         | 96.5         | 148.4        | 182.6          | 194.5          | 226.4          |
| Kuwait                     | 0.7          | 1.6          | 1.8          | 6.0          | 6.1          | 10.7         | 21.8         | 22.2           | 22.7           | 22.6           |
| Lebanon                    | 50.7         | 46.5         | 46.6         | 50.8         | 54.1         | 58.3         | 63.7         | 67.4           | 86.2           | 133.3          |
| Oman                       | 0.2          | 0.2          | 0.5          | 0.5          | 1.8          | 5.6          | 16.6         | 39.4           | 45.4           | 154.1          |
| State of Palestine (the)   | 0.1          | 0.7          | 2.7          | 5.4          | 7.5          | 8.4          | 16.7         | 23.4           | 34.7           | 36.6           |
| Qatar                      | 10.5         | 10.4         | 9.5          | 9.3          | 8.9          | 8.7          | 8.6          | 8.7            | 9.0            | 305.8          |
| Saudi Arabia               | 0.7          | 0.8          | 0.7          | 0.7          | 1.1          | 2.5          | 3.1          | 3.1            | 12.3           | 12.2           |
| Syrian Arab Republic (the) | 39.9         | 74.8         | 82.2         | 79.2         | 78.9         | 77.5         | 74.6         | 72.6           | 71.8           | 70.4           |
| United Arab Emirates (the) | 14.6         | 15.1         | 15.1         | 15.2         | 39.1         | 65.7         | 210.2        | 251.3          | 320.7          | 380.4          |
| Yemen                      | 0.1          | 0.2          | 2.1          | 2.7          | 3.3          | 8.1          | 7.9          | 8.0            | 7.8            | 7.6            |

## SDG Indicator 7.b.1/12.a.1

*Installed renewable energy-generating capacity in developed and developing countries (in watts per capita)*

## ODD Indicateur 7.b.1/12.a.1

*Puissance installée de production d'énergie renouvelable dans les pays développés et en développement  
(en watts par capita)*

## ODS Indicador 7.b.1/12.a.1

*Capacidad instalada de generación de energía renovable en los países desarrollados y en desarrollo  
(en watts per cápita)*

| <b>(Watts per capita)</b>     | <b>2013</b>  | <b>2014</b>  | <b>2015</b>  | <b>2016</b>  | <b>2017</b>  | <b>2018</b>  | <b>2019</b>  | <b>2020</b>    | <b>2021</b>    | <b>2022</b>    |
|-------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|----------------|----------------|----------------|
| <b>North America</b>          | <b>579.6</b> | <b>603.2</b> | <b>643.3</b> | <b>686.4</b> | <b>714.0</b> | <b>744.3</b> | <b>786.9</b> | <b>847.7</b>   | <b>918.8</b>   | <b>972.8</b>   |
| Canada                        | 2 474.5      | 2 528.2      | 2 675.8      | 2 699.4      | 2 698.4      | 2 703.3      | 2 681.9      | 2 674.7        | 2 733.3        | 2 779.2        |
| Greenland                     | 1 638.1      | 1 642.1      | 1 643.8      | 1 643.2      | 1 642.8      | 1 646.1      | 1 646.1      | 1 646.9        | 1 645.0        | 1 638.5        |
| Mexico                        | 130.1        | 140.6        | 144.9        | 157.3        | 161.6        | 172.0        | 212.1        | 229.8          | 241.6          | 250.6          |
| Saint Pierre and Miquelon     | 99.9         | 100.2        |              |              |              |              |              |                |                |                |
| United States of America      | 536.5        | 562.0        | 603.8        | 660.7        | 699.6        | 739.4        | 789.1        | 873.3          | 967.8          | 1 039.6        |
| American Samoa                | 45.6         | 46.3         | 47.0         | 77.7         | 86.3         | 106.6        | 101.6        | 104.1          | 106.8          | 108.6          |
| <b>Oceania</b>                | <b>611.2</b> | <b>639.2</b> | <b>657.2</b> | <b>669.3</b> | <b>699.9</b> | <b>815.0</b> | <b>947.6</b> | <b>1 095.6</b> | <b>1 207.4</b> | <b>1 283.3</b> |
| Australia                     | 695.2        | 740.1        | 773.1        | 799.3        | 855.0        | 1 054.9      | 1 285.8      | 1 543.8        | 1 732.0        | 1 864.9        |
| Cook Islands (the)            | 39.7         | 93.8         | 163.7        | 171.6        | 173.1        | 280.1        | 325.5        | 327.1          | 327.6          | 327.4          |
| Fiji                          | 209.0        | 209.1        | 210.9        | 212.8        | 228.5        | 229.1        | 229.3        | 229.2          | 236.8          | 236.0          |
| French Polynesia              | 224.1        | 249.3        | 258.9        | 270.0        | 281.2        | 286.5        | 296.5        | 306.3          | 307.7          | 305.5          |
| Guam                          | 4.8          | 8.6          | 190.2        | 207.5        | 216.9        | 227.4        | 237.2        | 246.1          | 253.9          | 611.0          |
| Kiribati                      | 4.6          | 6.7          | 19.9         | 24.3         | 24.0         | 26.3         | 25.9         | 25.4           | 24.9           | 24.5           |
| Marshall Islands (the)        | 11.7         | 20.5         | 20.9         | 33.8         | 35.9         | 37.2         | 38.3         | 39.4           | 40.7           | 42.8           |
| Micronesia (Federated States) | 6.3          | 17.0         | 17.0         | 22.4         | 22.3         | 36.5         | 39.9         | 39.7           | 39.3           | 39.0           |
| Nauru                         | 19.6         | 19.2         | 18.8         | 62.1         | 60.9         | 69.0         | 204.1        | 201.5          | 232.0          | 249.7          |
| New Caledonia                 | 431.6        | 425.7        | 434.2        | 444.7        | 504.3        | 546.0        | 669.2        | 749.7          | 851.7          | 879.0          |
| New Zealand                   | 1 584.5      | 1 606.7      | 1 590.2      | 1 565.7      | 1 544.6      | 1 524.2      | 1 493.6      | 1 474.8        | 1 507.7        | 1 504.2        |
| Niue                          | 30.1         | 186.0        | 184.6        | 183.2        | 182.5        | 180.7        | 489.8        | 484.6          | 485.8          | 486.6          |
| Palau                         | 41.8         | 63.6         | 63.6         | 117.9        | 117.7        | 139.9        | 146.1        | 162.5          | 240.7          | 240.3          |
| Papua New Guinea              | 37.4         | 36.5         | 37.7         | 36.8         | 35.9         | 35.1         | 34.5         | 33.8           | 33.2           | 32.9           |
| Samoa                         | 45.2         | 62.0         | 69.8         | 81.0         | 127.9        | 127.4        | 133.6        | 135.5          | 133.2          | 131.0          |
| Solomon Islands               | 2.6          | 3.5          | 3.4          | 5.2          | 5.6          | 5.5          | 5.2          | 5.1            | 5.0            | 7.2            |
| Tokelau                       | 633.2        | 636.5        | 654.1        | 729.5        | 700.5        | 642.2        | 602.7        | 578.0          | 571.1          | 564.4          |
| Tonga                         | 24.3         | 24.5         | 34.5         | 42.3         | 63.0         | 65.8         | 78.3         | 78.1           | 77.5           | 141.5          |
| Tuvalu                        | 19.4         | 25.5         | 189.8        | 204.8        | 205.7        | 206.0        | 204.3        | 208.9          | 206.4          | 204.4          |
| Vanuatu                       | 27.1         | 29.1         | 28.9         | 32.9         | 34.2         | 38.5         | 39.3         | 38.8           | 37.9           | 37.1           |
| <b>South America</b>          | <b>397.8</b> | <b>417.2</b> | <b>435.0</b> | <b>467.0</b> | <b>484.1</b> | <b>504.6</b> | <b>524.1</b> | <b>540.2</b>   | <b>570.1</b>   | <b>608.5</b>   |
| Argentina                     | 250.1        | 247.5        | 246.5        | 245.4        | 244.2        | 258.5        | 283.6        | 312.4          | 331.8          | 331.6          |
| Bolivia (Plurinational State) | 57.1         | 59.8         | 60.5         | 61.7         | 72.2         | 86.5         | 96.2         | 94.9           | 111.5          | 111.6          |
| Brazil                        | 494.9        | 523.2        | 549.0        | 586.7        | 615.9        | 649.9        | 682.7        | 705.9          | 751.8          | 814.0          |
| Chile                         | 442.3        | 489.2        | 521.2        | 566.6        | 612.4        | 627.2        | 644.6        | 694.4          | 809.6          | 959.0          |
| Colombia                      | 217.9        | 238.5        | 249.5        | 249.6        | 249.6        | 247.5        | 244.9        | 243.2          | 244.1          | 259.7          |
| Ecuador                       | 151.9        | 152.9        | 160.4        | 282.2        | 282.3        | 309.5        | 304.2        | 301.2          | 297.8          | 299.6          |
| Falkland Islands (Malvinas)   | 408.0        | 399.0        | 410.8        | 399.1        | 389.1        | 382.9        | 911.1        | 902.1          | 898.0          | 894.2          |
| French Guiana                 | 642.8        | 627.9        | 652.2        | 637.8        | 622.5        | 606.5        | 601.7        | 615.8          | 602.3          | 588.3          |
| Guyana                        | 74.1         | 74.0         | 76.8         | 64.1         | 65.4         | 65.2         | 66.7         | 66.8           | 66.2           | 65.9           |
| Paraguay                      | 1 473.5      | 1 452.9      | 1 432.4      | 1 412.2      | 1 392.4      | 1 373.4      | 1 355.5      | 1 337.4        | 1 320.4        | 1 305.6        |
| Peru                          | 126.0        | 133.6        | 151.3        | 183.9        | 184.1        | 189.4        | 191.6        | 190.5          | 190.8          | 188.9          |
| Suriname                      | 321.0        | 326.9        | 326.3        | 323.7        | 322.1        | 319.8        | 316.3        | 313.8          | 310.8          | 312.5          |
| Uruguay                       | 545.7        | 719.4        | 848.2        | 956.5        | 1 083.9      | 1 085.6      | 1 087.6      | 1 088.6        | 1 092.0        | 1 096.9        |
| Venezuela (Bolivarian Rep)    | 503.4        | 497.5        | 500.5        | 552.1        | 555.3        | 569.0        | 585.1        | 595.7          | 601.9          | 599.7          |

7.b.1/12.a.1 - Installed renewable energy-generating capacity in developed and developing countries (in watts per capita)

7.b.1/12.a.1 - Puissance installée de production d'énergie renouvelable dans les pays développés et en développement (en watts par capita)

7.b.1/12.a.1 - Capacidad instalada de generación de energía renovable en los países desarrollados y en desarrollo (en watts per cápita)





**IRENA**

International Renewable Energy Agency

IRENA Headquarters  
Masdar City  
P.O. Box 236 Abu Dhabi  
United Arab Emirates  
[www.irena.org](http://www.irena.org)