

RENEWABLE ENERGY STATISTICS 2026

STATISTIQUES D'ÉNERGIE RENOUVELABLE 2026

ESTADÍSTICAS DE ENERGÍA RENOVABLE 2026

Copyright © IRENA 2026

Unless otherwise stated, this publication and material featured herein are the property of the International Renewable Energy Agency (IRENA) and are subject to copyright by IRENA.

Material in this publication may be freely used, shared, copied, reproduced, printed and/or stored, provided that all such material is clearly attributed to IRENA and bears a notation that it is subject to copyright (© IRENA), with the year of the copyright.

Material contained in this publication attributed to third parties may be subject to third party copyright and separate terms of use and restrictions, including restrictions in relation to any commercial use.

ISBN: 978-92-9260-758-6

Citation: IRENA (2026), *Renewable energy statistics 2026*, International Renewable Energy Agency, Abu Dhabi.

About IRENA

The International Renewable Energy Agency (IRENA) is an intergovernmental organisation that supports countries in their transition to a sustainable energy future, and serves as the principal platform for international co-operation, a centre of excellence, and a repository of policy, technology, resource and financial knowledge on renewable energy. IRENA promotes the widespread adoption and sustainable use of all forms of renewable energy, including bioenergy, geothermal, hydropower, ocean, solar and wind energy, in the pursuit of sustainable development, energy access, energy security and low-carbon economic growth and prosperity. www.irena.org

Acknowledgements

Prepared by: Julian Prime, Iman Abdulkadir Ahmed, Dennis Akande, Nazik Elhassan, Ali Almir Mahmoud, Yury Melnikov, Giedre Viskantaite and Adrian Whiteman. The authors also gratefully acknowledge all contributions to this dataset from Eurostat, the International Energy Agency (IEA), OECD (DAC Database), and national statistical focal points in countries.

Publications and editorial support were provided by Francis Field, Stephanie Clarke and Myrto Petrou. Communications and digitalisation support were provided by Nicole Bockstaller, Nanda Febriani Moenandar and Daria Gazzola.

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

This report is available for download from: www.irena.org/Publications. Data can be downloaded at: www.irena.org/Data.

Disclaimer

This publication and the material featured herein are provided “as is”, for informational purposes.

All reasonable precautions have been taken by IRENA to verify the reliability of the material featured in this publication. Neither IRENA nor any of its officials, agents, data or other third-party content providers or licensors provides any warranty, including as to the accuracy, completeness, or fitness for a particular purpose or use of such material, or regarding the non-infringement of third-party rights, and they accept no responsibility or liability with regard to the use of this publication and the material featured therein.

The information contained herein does not necessarily represent the views of the Members of IRENA, nor is it an endorsement of any project, product or service provider. The designations employed and the presentation of material herein do not imply the expression of any opinion on the part of IRENA concerning the legal status of any region, country, territory, city or area or of its authorities, or concerning the delimitation of frontiers or boundaries.

TABLE OF CONTENTS

TABLE DES MATIÈRES

TABLA DE CONTENIDOS

Notes to the tables Notes à propos des tableaux Notas a las tablas	IV
Countries, areas and regions shown in the tables Pays, zones et régions figurant dans les tableaux Países, zonas y regiones mostradas en las tablas	VI
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	2
Hydropower Hydroélectricité Hidroeléctrica	10
Renewable hydropower Hydroélectricité renouvelable Hidroeléctrica renovable	16
Pumped hydro Hydroaccumulation Hidroacumulación	22
Marine energy Énergie marine Energía marina	24
Wind energy Énergie éolienne Energía eólica	26
Onshore wind energy Énergie éolienne terrestre Energía eólica terrestre	32
Offshore wind energy Énergie éolienne maritime Energía eólica marina	38
Solar energy Énergie solaire Energía solar	40
Solar photovoltaic Solaire photovoltaïque Solar fotovoltaica	48
Concentrated solar power Solaire thermique à concentration Energía solar termoeléctrica	56

Bioenergy Bioénergie Bioenergía	58
Renewable waste Déchets renouvelables Residuos renovables	62
Renewable municipal waste Déchets municipaux renouvelables Residuos municipales renovables	64
Renewable industrial waste Déchets industriels renouvelables Residuos industriales renovables	66
Solid biofuels Biocombustibles solides Biocombustibles sólidos	68
Bagasse Bagasse Bagazo	72
Liquid biofuels Biocarburants liquides Biocombustibles líquidos	74
Gas biofuels Biocombustibles gazeux Biocombustibles gaseosos	76
Geothermal energy Énergie géothermique Energía geotérmica	80
OFF-GRID CAPACITY CAPACITÉ HORS RÉSEAU CAPACIDAD AISLADA	
Total off-grid renewable energy Total énergies renouvelables hors réseau Total energías renovables aislada	82
Off-grid Hydropower Hydroélectricité hors réseau Hidroeléctrica aislada	88
Off-grid solar photovoltaic Solaire photovoltaïque hors réseau Solar fotovoltaica aislada	90
Other off-grid renewable energy Autres énergies renouvelables hors réseau Otras energías renovables aislada	95

**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	99
Renewable energy share of electricity production Part d'énergie renouvelable dans la production d'électricité Porcentaje de energía renovable en la generación eléctrica	103

**PUBLIC RENEWABLE ENERGY FINANCE FLOWS
FLUX FINANCIERS PUBLICS PAR LES ENERGIES RENOUVELABLES
FLUJOS FINANCIEROS PUBLICOS EN ENERGIAS RENOVABLES**

Total renewable energy Total énergies renouvelables Total energías renovables	109
Hydropower Hydroélectricité Hidroeléctrica	112
Wind energy Énergie éolienne Energía eólica	114
Solar energy Énergie solaire Energía solar	116
Bioenergy Bioénergie Bioenergía	119
Geothermal energy Énergie géothermique Energía geotérmica	121

**SUSTAINABLE DEVELOPMENT GOALS
OBJETIFS DE DÉVELOPPEMENT DURABLE
OBJETIVOS DE DESARROLLO SOSTENIBLE**

SDG Indicator 7.a.1 SDG Indicateur 7.a.1 SDG Indicador 7.a.1	125
SDG Indicator 7.b.1 / 12.a.1 SDG Indicateur 7.b.1 / 12.a.1 SDG Indicador 7.b.1 / 12.a.1	128

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 hydro 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. 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.

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. Hydroaccumulation 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 présentées dans gigawatt-heures (GWh). Toutes les données sont arrondis à l'unité la plus proche ; les valeurs inférieures à 0,5 apparaissent comme 0. 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.

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. Hidroacumulación 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 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 www.irena.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	Cameroun	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 de Cunha	Santa Helena, Ascensión y Tristán de Acuña
Sao Tome Prn	Sao Tome and Principe	Sao Tomé-et-Príncipe	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

Label/En-tête/Rótulo	English	Français	Español
Westn Sahara	Western Sahara	Sahara occidental	Sahara occidental
Zambia	Zambia	Zambie	Zambia
Zimbabwe	Zimbabwe	Zimbabwe	Zimbabue
ASIA	ASIA	ASIE	ASIA
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
C AMERICA + CARIB	CENTRAL AMERICA AND THE CARIBBEAN	AMÉRIQUE CENTRALE ET CARAÏBES	CENTROAMÉRICA Y EL CARIBE
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

Label/En-tête/Rótulo	English	Français	Español
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
EURASIA	EURASIA	EURASIE	EURASIA
Armenia	Armenia	Arménie	Armenia
Azerbaijan	Azerbaijan	Azerbaïdjan	Azerbaiján
Georgia	Georgia	Géorgie	Georgia
Russian Fed	Russian Federation	Fédération de Russie	Federación de Rusia
Türkiye	Türkiye	Türkiye	Türkiye
EUROPE	EUROPE	EUROPE	EUROPA
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

Label/En-tête/Rótulo	English	Français	Español
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
MIDDLE EAST	MIDDLE EAST	MOYEN-ORIENT	MEDIO ESTE
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
N AMERICA	NORTH AMERICA	AMÉRIQUE DU NORD	NORTEAMÉRICA
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
OCEANIA	OCEANIA	OCEANIE	OCEANÍA
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	Ile 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

Label/En-tête/Rótulo	English	Français	Español
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)	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
World	2 021 302	2 187 566	2 358 148	2 541 904	2 811 106	3 077 116	3 379 238	3 875 756	4 461 632	5 155 007
Africa	37 076	41 462	45 754	48 227	51 446	53 574	58 802	65 562	71 111	82 397
Algeria	500	593	605	605	585	506	590	601	601	601
Angola	1 752	2 445	3 113	3 448	3 782	3 782	4 066	4 091	4 142	4 165
Benin	3	3	3	4	5	7	34	36	36	36
Botswana	3	3	4	6	6	6	6	9	66	169
Burkina Faso	36	71	87	91	91	92	123	212	251	251
Burundi	56	54	54	54	54	61	76	77	77	178
Cabo Verde	33	33	38	41	42	44	50	53	58	73
Cameroon	733	755	757	839	853	865	867	1 050	1 500	1 500
Cent Afr Rep	19	19	19	19	19	19	19	59	59	59
Chad	3	3	4	4	4	5	5	5	5	114
Comoros	2	3	3	3	3	5	4	5	5	11
Congo DR	2 434	2 448	2 609	2 620	2 625	2 628	2 958	3 215	3 289	3 289
Congo Rep	213	226	226	226	227	227	227	227	227	227
Cote d'Ivoire	604	880	881	883	885	887	888	918	1 029	1 029
Djibouti	0	0	0	0	0	20	20	80	80	81
Egypt	3 681	3 802	4 793	5 690	5 934	6 258	6 286	6 673	7 716	9 258
Eq Guinea	126	126	127	127	127	127	127	127	127	127
Eritrea	10	24	27	27	27	26	26	26	26	26
Eswatini	168	168	168	168	168	178	178	197	197	197
Ethiopia	2 649	4 366	4 451	4 451	4 713	4 759	5 589	5 570	5 989	10 082
Gabon	172	173	173	321	321	321	321	321	332	332
Gambia	2	2	3	3	3	3	3	3	26	26
Ghana	1 630	1 635	1 665	1 675	1 698	1 756	1 759	1 778	1 778	1 778
Guinea	369	370	382	378	604	829	830	831	831	832
Guinea Bissau	1	1	2	2	2	2	2	2	3	3
Kenya	1 625	1 663	2 045	2 063	2 262	2 429	2 610	2 887	2 993	2 979
Lesotho	75	75	75	75	75	75	75	103	104	104
Liberia	27	94	94	95	96	96	97	97	97	99
Libya	5	5	5	5	5	6	6	8	8	9
Madagascar	165	166	186	188	189	189	245	251	252	256
Malawi	392	393	393	393	395	475	516	516	516	516
Mali	328	366	366	367	418	449	593	593	633	633
Mauritania	69	69	121	122	122	122	123	260	294	306
Mauritius	187	192	236	262	273	279	279	303	318	318
Mayotte	13	15	16	17	19	30	30	31	31	31
Morocco	2 417	2 539	3 272	3 272	3 522	3 638	3 725	4 243	4 659	4 851
Mozambique	2 270	2 270	2 271	2 316	2 323	2 332	2 383	2 430	2 444	2 444
Namibia	374	420	478	541	546	549	604	598	598	747
Niger	7	7	14	14	15	15	50	83	83	83
Nigeria	2 141	2 147	2 151	2 170	2 199	2 230	2 263	3 093	3 155	3 206
Reunion	384	385	427	432	449	461	496	784	922	922
Rwanda	108	111	111	123	133	134	140	140	170	127
Sao Tome Prn	2	2	2	2	2	2	2	4	4	5
Senegal	101	142	185	266	370	438	440	441	481	625
Seychelles	8	9	10	10	13	22	23	24	25	25
Sierra Leone	91	96	96	98	99	106	111	112	111	112
Somalia	4	5	6	6	14	22	46	49	49	49
South Africa	4 379	5 307	5 611	5 912	7 234	7 717	9 884	12 464	13 517	16 598
South Sudan	1	2	2	2	4	4	4	17	31	45
Sudan	1 547	1 557	1 741	1 762	1 799	1 817	1 871	1 871	1 871	1 871
Tanzania	664	668	675	672	676	678	678	759	1 470	2 880
Togo	67	67	70	73	77	130	132	133	133	153
Tunisia	340	349	375	391	407	408	510	819	1 086	1 206
Uganda	775	809	892	1 165	1 202	1 262	1 288	1 720	1 920	1 926
Zambia	2 432	2 443	2 445	2 535	2 537	2 843	3 303	3 339	3 401	3 541
Zimbabwe	878	884	1 188	1 191	1 193	1 207	1 220	1 225	1 285	1 285

Total renewable energy

Total énergies renouvelables

Total energías renovables

CAP (MW)	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Asia	813 653	920 773	1 025 578	1 125 382	1 301 496	1 456 056	1 630 463	1 961 330	2 381 345	2 895 405
Afghanistan	350	373	372	402	401	418	523	523	534	554
Bangladesh	443	495	518	558	622	784	801	1 024	1 184	1 484
Bhutan	1 615	1 615	1 615	2 335	2 335	2 335	2 335	2 336	2 456	3 512
Brunei Darism	1	1	1	1	1	5	5	5	5	6
Cambodia	1 004	1 087	1 449	1 546	1 731	1 792	1 888	1 892	2 842	3 356
China	541 016	620 856	695 463	758 870	896 412	1 017 852	1 156 126	1 453 701	1 817 956	2 258 016
China HK SAR	1	47	47	143	145	149	244	393	469	485
Chinese Taipei	4 411	4 944	5 939	7 482	9 250	11 294	13 815	17 622	20 733	22 540
India	90 414	105 258	118 227	128 475	134 774	147 418	163 295	175 899	204 504	250 498
Indonesia	9 065	9 459	9 807	10 303	10 465	11 533	12 596	13 325	13 866	15 180
Japan	75 563	83 597	90 722	98 683	107 934	115 170	121 368	126 871	130 814	134 949
Kazakhstan	2 851	2 898	3 088	3 606	4 190	4 536	5 069	5 504	5 561	6 084
Korea DPR	4 735	4 799	4 842	4 857	4 946	4 969	5 008	5 041	5 115	5 128
Korea Rep	9 528	11 603	13 854	17 810	22 000	24 102	26 874	30 015	38 287	42 075
Kyrgyzstan	3 677	3 689	3 673	3 673	3 674	2 780	3 144	3 143	3 314	3 527
Lao PDR	4 912	5 157	5 544	6 386	8 185	9 142	9 832	9 957	10 370	12 688
Malaysia	7 930	7 026	7 460	7 903	8 563	8 705	9 285	9 630	10 286	10 286
Maldives	9	12	18	31	41	42	54	57	70	76
Mongolia	105	188	260	285	288	288	288	292	328	374
Myanmar	3 344	3 358	3 374	3 417	3 413	3 439	3 509	3 509	3 544	3 568
Nepal	832	978	1 101	1 221	1 352	2 069	2 317	2 798	3 471	4 030
Pakistan	8 808	9 223	12 203	12 347	12 761	13 245	15 095	16 123	17 514	17 514
Philippines	6 334	6 495	6 673	6 856	7 075	7 408	7 770	7 970	9 318	10 432
Singapore	269	290	338	447	507	678	891	1 201	1 496	1 686
Sri Lanka	1 953	2 057	2 181	2 332	2 457	2 723	2 929	3 119	3 865	4 793
Tajikistan	4 957	4 958	4 958	5 718	5 719	5 719	5 737	5 737	5 738	5 842
Thailand	9 370	10 148	11 216	11 701	11 842	12 403	12 540	12 593	12 607	16 018
Timor Leste	2	1	1	1	1	1	1	1	1	1
Turkmenistan	1	1	1	1	1	2	2	2	2	2
Uzbekistan	1 883	1 861	1 919	1 912	2 025	2 056	2 429	3 250	6 079	10 027
Viet Nam	18 271	18 296	18 713	26 083	38 385	42 999	44 690	47 798	49 014	50 671
C America + Carib	13 201	14 033	14 984	15 889	16 428	17 070	17 626	18 694	19 502	21 349
Anguilla	2	2	1	2	2	2	2	2	2	2
Antigua Barb	4	4	9	9	13	15	15	16	16	16
Aruba	39	39	45	45	45	45	45	45	46	36
Bahamas	4	4	4	6	6	11	16	17	23	23
Barbados	15	16	17	33	49	64	71	71	71	71
Belize	83	91	92	98	98	98	98	98	98	98
BES Islands	13	16	17	18	18	18	18	27	33	35
Br Virgin Is	1	1	1	2	2	2	2	3	3	5
Cayman Is	3	9	11	12	14	15	15	15	15	15
Costa Rica	2 917	2 981	3 081	3 144	3 123	3 182	3 137	3 196	3 171	3 205
Cuba	522	598	672	606	775	813	791	804	916	1 091
Curacao	41	58	59	59	60	60	60	61	84	84
Dominica	8	8	7	7	7	7	7	9	9	9
Dominican Rep	840	924	1 071	1 411	1 462	1 660	1 860	2 201	2 564	3 274
El Salvador	971	1 159	1 252	1 491	1 593	1 674	1 705	1 852	1 950	1 950
Grenada	2	2	3	3	4	4	4	4	4	4
Guadeloupe	151	156	175	191	206	218	225	227	228	238
Guatemala	2 595	2 684	2 833	2 863	2 864	2 693	2 698	2 704	2 704	2 704
Haiti	61	61	83	83	83	83	81	82	82	87
Honduras	1 481	1 614	1 698	1 746	1 865	1 881	1 941	1 941	1 969	2 054
Jamaica	192	220	220	271	271	272	274	277	281	281
Martinique	71	73	116	134	135	147	154	164	175	182
Montserrat				0	0	1	1	1	1	1
Nicaragua	661	674	674	731	731	732	746	748	770	839
Panama	2 051	2 112	2 308	2 354	2 383	2 647	2 781	2 933	3 031	3 261
Puerto Rico	443	502	505	537	583	689	841	1 157	1 193	1 591
St Barth	0	0	0	0	0	0	0	0	1	1
St Kitts Nevis	4	4	4	4	5	5	5	5	7	7
St Lucia	1	1	4	4	4	4	4	4	5	6
St Maarten							0	0	0	0
St Martin	2	0	0	1	1	1	2	2	2	17
St Vincent Gren	8	8	9	10	10	10	10	11	11	11
Trinidad Tobago	4	4	4	4	4	4	4	4	5	97
Turks Caicos	0	0	0	1	1	3	3	4	4	4
US Virgin Is	9	5	10	10	10	10	10	10	31	53
Eurasia	90 437	95 221	99 362	103 065	109 235	114 852	118 432	128 956	133 058	141 409
Armenia	1 316	1 332	1 357	1 364	1 403	1 494	1 583	1 762	1 839	2 045
Azerbaijan	1 184	1 194	1 277	1 289	1 296	1 316	1 325	1 688	1 792	1 826
Georgia	3 180	3 134	3 241	3 324	3 349	3 394	3 435	3 535	3 574	3 853
Russian Fed	50 311	50 815	51 257	52 699	53 992	55 473	56 143	58 885	56 766	57 386
Türkiye	34 446	38 746	42 230	44 389	49 195	53 175	55 946	63 085	69 087	76 300

Total renewable energy

Total énergies renouvelables

Total energías renovables

CAP (MW)	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Europe	487 976	511 716	536 401	573 520	606 855	649 566	706 890	783 595	859 858	937 208
Albania	1 914	2 049	2 107	2 177	2 409	2 531	2 595	2 727	3 277	3 497
Andorra	51	51	51	52	52	52	53	56	58	61
Austria	19 343	19 603	20 383	20 781	21 164	22 132	23 541	26 471	29 334	31 531
Belarus	222	300	390	415	491	492	628	592	574	586
Belgium	6 657	7 399	8 262	9 397	11 153	11 807	13 082	14 759	15 993	17 085
Bosnia Herzg	1 776	1 808	1 886	1 930	1 953	2 039	2 085	2 200	2 714	3 076
Bulgaria	4 145	4 289	4 316	4 319	4 364	4 531	5 076	6 269	7 911	9 261
Croatia	2 793	2 916	2 979	3 068	3 255	3 490	3 585	3 973	4 562	5 051
Cyprus	252	278	289	322	400	485	595	752	920	1 042
Czechia	4 200	4 264	4 257	4 349	4 403	4 482	4 717	5 520	6 319	6 880
Denmark	7 410	8 194	8 902	9 180	9 656	10 867	12 191	12 795	13 433	14 561
Estonia	607	615	609	716	829	1 013	1 140	1 456	2 565	2 684
Faroe Islands	60	60	56	53	59	64	89	107	109	110
Finland	6 655	7 428	7 481	7 786	8 645	9 387	12 818	14 753	16 552	17 943
France	44 663	47 069	49 909	52 775	55 069	59 312	64 384	70 146	76 630	83 848
Germany	104 436	112 514	118 905	125 068	131 686	139 077	142 842	160 475	179 432	200 901
Greece	8 424	8 632	8 960	9 843	10 807	12 252	13 355	15 518	17 822	20 456
Hungary	1 048	1 224	1 630	2 288	3 024	3 906	5 155	6 823	8 190	9 201
Iceland	2 659	2 711	2 862	2 869	2 879	2 879	2 872	2 945	2 930	2 930
Ireland	3 105	3 672	4 051	4 553	4 794	4 911	5 223	5 982	6 873	8 063
Italy	51 022	51 944	52 963	54 127	55 195	56 541	59 478	64 777	71 842	78 278
Kosovo*	81	121	121	129	154	158	192	192	223	224
Latvia	1 778	1 796	1 804	1 826	1 826	1 823	1 927	2 165	2 505	2 755
Lithuania	765	788	843	886	1 017	1 325	1 919	2 900	4 694	6 121
Luxembourg	301	318	324	386	430	504	572	727	888	1 133
Malta	96	113	134	156	185	200	214	230	242	254
Moldova Rep	71	81	106	110	116	153	255	422	630	1 029
Montenegro	668	747	748	794	817	817	818	832	887	923
Netherlands	7 203	7 933	9 863	12 565	18 655	23 366	26 967	34 352	38 068	38 574
North Macedonia	720	749	755	761	782	800	915	1 356	1 675	1 894
Norway	32 814	33 251	34 411	35 929	37 981	39 386	39 749	40 072	40 585	40 801
Poland	7 870	7 965	8 265	9 250	11 977	16 132	21 415	27 425	34 014	38 227
Portugal	13 229	13 581	13 803	14 186	14 298	15 245	17 279	18 502	20 512	21 660
Romania	11 162	11 145	11 169	11 169	11 121	11 120	11 580	12 766	14 080	16 300
Serbia	2 461	2 482	2 695	2 910	2 928	2 957	3 067	3 273	3 473	3 810
Slovakia	2 397	2 385	2 330	2 431	2 377	2 406	2 433	2 418	2 693	2 993
Slovenia	1 409	1 479	1 474	1 512	1 612	1 704	1 863	2 273	2 665	2 781
Spain	47 825	47 975	48 316	54 636	57 348	62 048	74 441	80 881	88 443	98 614
Sweden	27 805	28 179	29 180	31 172	31 171	33 727	36 795	40 395	41 603	42 852
Switzerland	16 246	17 041	17 455	17 794	18 280	18 932	20 897	22 461	23 936	25 315
UK	35 437	40 038	43 905	46 663	47 730	49 590	53 169	56 247	61 059	64 861
Ukraine	6 199	6 530	7 455	12 189	13 764	14 921	14 921	14 612	8 941	9 041
European Union	386 599	403 696	421 398	448 745	476 459	513 794	564 585	635 501	708 786	779 049
Middle East	16 718	17 085	18 650	21 437	23 627	25 902	30 981	37 863	43 773	56 541
Bahrain	7	7	7	10	11	22	48	59	69	115
Iran IR	10 783	11 367	11 638	11 803	11 901	11 930	12 399	12 653	12 961	13 963
Iraq	2 311	1 594	1 594	1 594	1 594	1 594	1 599	1 599	1 599	1 621
Israel	966	1 066	1 411	2 203	2 717	3 656	4 807	5 901	6 006	7 763
Jordan	514	635	1 074	1 374	2 088	2 460	2 615	2 638	2 843	2 843
Kuwait	24	25	46	97	97	97	114	114	114	114
Lebanon	318	331	348	370	384	498	1 161	1 373	1 373	1 797
Oman	2	8	26	76	179	205	705	722	722	1 722
Palestine	26	36	41	83	119	179	193	260	303	309
Qatar	24	24	24	24	24	24	824	824	824	1 699
Saudi Arabia	24	37	87	112	412	442	840	2 840	6 601	12 332
Syrian AR	1 501	1 497	1 498	1 499	1 508	1 532	1 806	2 524	3 108	3 806
United Arab Em	136	354	601	1 936	2 334	3 003	3 606	6 072	6 847	8 001
Yemen	81	103	253	254	258	258	264	283	403	456
N America	331 180	347 620	365 955	390 522	422 331	460 822	490 071	525 711	570 100	612 098
Canada	96 998	98 149	99 592	99 988	100 390	103 330	105 781	107 385	109 362	110 391
Greenland	92	92	92	92	92	93	93	93	93	93
Mexico	19 004	19 701	21 398	27 709	29 301	31 577	31 708	32 950	34 231	35 168
USA	215 087	229 678	244 874	262 734	292 548	325 822	352 490	385 283	426 414	466 447

Total renewable energy

Total énergies renouvelables

Total energías renovables

CAP (MW)	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Oceania	27 070	29 221	34 454	40 341	47 143	52 449	58 615	64 259	69 895	75 956
Amer Samoa	4	4	5	5	5	5	7	7	7	7
Australia	18 890	20 974	26 114	31 911	38 564	43 536	49 437	54 674	59 720	65 512
Cook Is	3	3	5	6	6	6	6	6	6	6
Fiji	201	215	216	216	216	224	225	226	227	227
Fr Polynesia	80	83	86	90	94	95	102	102	130	130
Guam	35	37	38	40	42	43	105	105	105	105
Kiribati	2	2	2	2	2	2	2	4	4	4
Marshall Is	2	2	2	2	2	2	2	2	3	3
Micronesia	5	5	6	7	9	9	9	9	9	9
Nauru	1	1	1	2	2	3	3	3	3	9
New Caledon	126	143	176	220	244	294	349	354	355	359
New Zealand	7 370	7 392	7 437	7 468	7 585	7 853	7 977	8 291	8 846	9 088
Niue	0	0	0	1	1	1	1	1	2	2
Palau	2	2	3	3	3	4	4	20	20	23
Papua N Guin	310	310	311	311	312	313	316	382	384	394
Samoa	19	24	26	30	30	30	33	33	33	33
Solomon Is	3	4	4	4	4	4	5	7	7	10
Tokelau	1	1	1	1	1	1	1	1	1	1
Tonga	5	7	7	8	8	8	16	16	17	17
Tuvalu	4	4	4	4	4	4	4	4	5	5
Vanuatu	9	10	11	12	12	12	12	12	13	13
S America	203 990	210 435	217 011	223 521	232 545	246 826	267 358	289 786	312 989	332 644
Argentina	10 696	10 758	11 510	12 658	14 091	15 100	15 171	15 878	15 636	16 717
Bolivia	647	755	971	976	1 027	1 177	1 228	1 313	1 298	1 311
Brazil	131 694	136 245	139 859	144 569	150 587	161 096	176 247	194 076	213 816	228 197
Chile	9 299	10 207	11 159	11 553	12 894	15 192	18 789	21 288	23 663	26 374
Colombia	11 884	12 072	12 196	12 292	12 381	12 477	13 877	14 177	15 063	15 398
Ecuador	4 640	4 715	5 267	5 277	5 298	5 300	5 394	5 446	5 741	5 759
Falklands Malv	3	3	3	3	3	3	3	3	3	3
Fr Guiana	172	172	172	172	182	191	192	204	208	209
Guyana	49	51	53	54	55	54	60	66	69	88
Paraguay	8 820	8 820	8 820	8 846	8 846	8 846	8 847	8 847	8 847	8 849
Peru	5 751	5 847	6 123	6 312	6 368	6 431	6 578	7 180	7 297	8 365
South Georgia	0	0	0	0	0	0	0	0	0	0
Suriname	187	187	187	187	188	189	191	192	194	217
Uruguay	3 255	3 711	3 723	3 731	3 735	3 744	3 758	4 092	4 128	4 131
Venezuela	16 892	16 892	16 969	16 889	16 889	17 023	17 023	17 023	17 024	17 025

Total renewable energy

Total énergies renouvelables

Total energías renovables

PROD (GWh)	2016	2017	2018	2019	2020	2021	2022	2023	2024
World	5 883 549	6 248 491	6 645 584	7 013 062	7 480 215	7 896 724	8 473 709	8 956 917	9 836 128
Africa	142 871	151 445	163 664	175 198	185 967	197 702	206 650	214 875	227 099
Algeria	466	503	817	875	876	815	869	926	926
Angola	6 442	9 045	11 524	12 764	14 004	14 004	14 407	14 443	14 516
Benin	4	4	4	6	7	9	46	49	49
Botswana	5	5	6	6	6	6	6	6	6
Burkina Faso	145	144	177	197	203	221	176	285	461
Burundi	255	181	212	230	276	259	298	387	553
Cabo Verde	83	76	91	85	73	83	81	80	50
Cameroon	4 359	4 768	5 050	5 044	5 251	5 269	5 269	5 350	5 350
Cent Afr Rep	132	142	142	142	142	142	142	199	199
Chad	15	15	16	15	16	17	17	17	17
Comoros	1	2	2	2	2	5	4	4	4
Congo DR	8 834	9 419	10 536	11 517	12 589	13 453	13 337	13 460	13 794
Congo Rep	1 164	1 235	1 078	1 078	1 079	1 079	1 079	1 079	1 079
Cote d Ivoire	1 530	2 049	2 965	3 487	3 384	2 637	2 876	3 236	3 474
Djibouti	1	1	1	1	1	70	70	113	236
Egypt	16 121	15 973	15 942	17 948	24 083	25 236	26 451	27 341	28 743
Eq Guinea	471	438	443	477	489	470	470	348	446
Eritrea	19	46	51	51	51	50	49	49	49
Eswatini	335	303	377	413	424	468	501	630	605
Ethiopia	10 509	12 580	13 259	14 553	15 072	15 810	15 514	17 750	20 639
Gabon	824	917	984	961	913	914	914	914	914
Gambia	4	4	4	5	5	5	5	5	5
Ghana	5 628	5 692	6 112	7 378	7 435	7 733	8 448	8 439	10 173
Guinea	1 084	1 213	1 211	1 310	1 516	2 668	2 972	3 371	3 813
Guinea Bissau	1	2	3	3	3	3	3	3	3
Kenya	8 619	8 504	9 025	9 473	9 742	9 676	9 579	10 265	10 649
Lesotho	512	503	517	393	427	532	481	482	482
Liberia	26	130	130	131	132	252	257	354	338
Libya	8	8	8	8	8	8	8	8	8
Madagascar	921	820	1 038	959	892	841	944	1 116	1 086
Malawi	1 944	1 633	1 474	1 724	1 729	1 748	1 747	1 743	1 748
Mali	1 949	2 130	1 249	815	895	902	1 068	1 148	1 150
Mauritania	189	191	274	276	271	267	238	359	484
Mauritius	665	625	650	703	689	644	600	576	622
Mayotte	15	17	17	25	27	44	44	46	46
Morocco	4 708	4 720	6 569	7 626	7 062	7 828	7 237	7 595	10 478
Mozambique	15 748	14 211	14 032	14 975	15 882	15 654	16 363	16 589	16 604
Namibia	1 510	1 459	1 276	1 581	1 635	1 294	1 556	2 229	2 589
Niger	11	11	13	24	24	24	78	130	83
Nigeria	8 204	7 818	7 771	8 534	8 024	9 370	9 483	9 720	13 139
Reunion	1 030	967	1 079	953	935	872	1 157	1 748	2 836
Rwanda	346	325	354	420	543	579	537	520	551
Sao Tome Prn	6	5	5	6	6	6	6	7	7
Senegal	62	155	290	353	534	846	886	873	864
Seychelles	9	10	12	10	12	23	25	25	27
Sierra Leone	231	240	240	243	244	254	262	265	265
Somalia	7	9	10	10	23	36	72	78	85
South Africa	4 668	5 288	6 277	6 926	8 921	10 324	14 233	16 486	17 057
South Sudan	2	3	3	4	15	21	39	34	34
Sudan	8 189	9 497	9 799	10 341	11 138	10 175	10 276	10 274	10 274
Tanzania	2 601	2 595	2 484	2 734	3 402	3 335	2 816	2 874	3 043
Togo	204	205	109	137	91	159	122	148	158
Tunisia	586	603	648	824	676	684	673	814	960
Uganda	3 525	3 685	3 989	4 447	4 480	4 855	5 533	4 165	4 187
Zambia	11 152	12 584	13 843	12 582	13 107	16 369	17 354	17 376	11 011
Zimbabwe	6 795	7 741	9 476	9 416	6 498	8 652	8 972	8 348	10 132

Total renewable energy

Total énergies renouvelables

Total energías renovables

PROD (GWh)	2016	2017	2018	2019	2020	2021	2022	2023	2024
Asia	2 220 590	2 432 732	2 651 701	2 869 217	3 104 444	3 434 860	3 760 612	4 015 998	4 589 490
Afghanistan	1 060	1 081	960	1 193	1 111	958	849	890	1 296
Bangladesh	1 269	1 391	1 266	1 229	1 278	1 386	1 595	1 955	2 474
Bhutan	7 954	7 730	6 960	8 876	11 371	10 823	10 772	10 763	11 674
Brunei Darism	1	2	2	1	1	4	4	4	5
Cambodia	2 694	2 854	4 910	4 300	4 304	5 800	6 715	5 868	8 642
China	1 522 405	1 648 541	1 810 864	1 986 041	2 149 036	2 402 806	2 625 256	2 842 826	3 340 355
China HK SAR	56	99	100	113	169	264	362	362	362
Chinese Taipei	11 034	10 699	10 870	13 449	13 401	15 729	22 081	25 187	32 097
India	189 899	208 886	236 552	272 147	299 029	307 421	338 170	369 407	380 340
Indonesia	39 710	43 330	48 194	47 563	52 429	55 767	65 044	64 721	66 737
Japan	151 237	167 721	174 655	185 308	197 624	211 584	219 256	227 058	230 470
Kazakhstan	12 030	11 694	11 024	11 304	12 122	12 656	13 259	14 470	17 658
Korea DPR	12 844	11 950	12 868	11 087	12 906	16 235	16 753	15 970	15 788
Korea Rep	18 554	21 108	26 424	30 105	36 830	42 206	48 573	52 712	56 894
Kyrgyzstan	11 498	14 204	14 318	13 859	13 979	12 957	11 929	12 031	12 936
Lao PDR	24 927	31 152	33 970	29 390	33 236	37 159	39 325	37 004	41 238
Malaysia	21 169	27 789	28 186	29 865	32 284	37 463	39 324	40 429	44 199
Maldives	14	19	27	46	61	62	80	85	105
Mongolia	253	269	480	664	660	814	760	783	767
Myanmar	10 004	11 487	11 564	9 783	8 777	5 180	9 658	6 525	7 480
Nepal	3 853	4 508	4 839	5 618	6 272	8 010	10 286	11 550	13 267
Pakistan	37 948	36 420	37 215	42 603	46 060	46 283	46 669	48 148	56 968
Philippines	21 346	22 558	22 704	21 438	21 014	22 922	24 303	25 950	27 912
Singapore	870	872	863	937	982	1 117	1 685	1 798	2 206
Sri Lanka	4 707	4 614	7 046	5 626	5 878	8 655	8 432	7 954	9 190
Tajikistan	16 803	17 312	18 573	19 348	19 348	19 348	19 879	20 603	20 879
Thailand	23 317	27 804	34 425	37 745	33 438	36 003	38 029	43 179	45 973
Timor Leste	3	3	2	2	0	0	0	0	0
Turkmenistan	3	3	3	3	3	3	3	3	3
Uzbekistan	8 105	8 106	5 904	6 468	5 016	5 050	6 936	7 460	12 915
Viet Nam	65 021	88 527	85 933	73 106	85 823	110 195	134 627	120 302	128 660
C America + Carib	41 106	46 406	46 691	45 555	50 589	55 995	56 738	52 225	55 230
Anguilla	2	2	2	3	4	4	4	4	4
Antigua Barb	5	6	10	14	17	22	23	24	25
Aruba	150	144	150	157	157	157	157	157	157
Bahamas	12	12	12	13	15	19	27	31	36
Barbados	13	29	31	44	69	85	108	112	120
Belize	376	403	388	248	523	298	421	327	327
BES Islands	38	35	45	41	33	38	37	43	49
Br Virgin Is	3	3	3	4	4	5	5	5	5
Cayman Is	2	9	15	19	21	23	23	24	24
Costa Rica	10 628	11 214	11 256	11 299	11 605	12 656	12 619	11 451	11 216
Cuba	812	788	760	913	958	957	795	727	553
Curacao	132	181	251	244	207	207	198	187	206
Dominica	37	28	25	21	20	21	23	21	26
Dominican Rep	2 037	3 110	2 992	2 679	3 415	4 038	4 327	4 494	5 095
El Salvador	3 659	4 151	4 240	4 407	5 445	6 107	6 014	5 253	5 959
Grenada	3	3	4	4	4	5	4	5	5
Guadeloupe	315	361	365	383	397	563	571	593	501
Guatemala	7 523	8 616	8 919	8 669	9 141	9 382	9 853	9 162	8 735
Haiti	74	131	202	205	205	205	205	205	219
Honduras	4 468	5 378	6 189	5 628	5 492	6 778	6 685	6 125	6 552
Jamaica	364	512	540	538	557	551	533	485	498
Martinique	99	90	178	381	354	382	397	395	392
Montserrat					0	2	2	2	2
Nicaragua	2 397	2 533	2 739	2 608	2 654	2 923	2 824	2 840	3 025
Panama	7 342	8 064	6 844	6 255	8 457	9 597	9 747	8 114	9 813
Puerto Rico	562	556	468	713	766	898	1 060	1 355	1 607
St Barth	0	0	0	0	0	0	0	0	0
St Kitts Nevis	11	8	9	9	10	10	10	10	10
St Lucia	2	2	7	9	8	8	8	9	9
St Martin	3	0	0	0	1	1	2	2	2
St Vincent Gren	17	21	26	24	27	26	26	30	30
Trinidad Tobago	6	6	6	6	6	6	6	6	6
Turks Caicos	0	0	1	1	1	4	5	5	6
US Virgin Is	14	7	14	14	14	17	18	19	18
Eurasia	289 278	286 676	303 378	342 122	356 268	353 032	362 293	367 240	410 784
Armenia	2 353	2 272	2 340	2 398	1 837	2 367	3 372	2 382	3 040
Azerbaijan	2 192	1 976	2 052	1 910	1 413	1 617	1 945	2 121	3 848
Georgia	9 339	9 299	10 035	9 020	8 345	10 289	10 904	10 950	11 423
Russian Fed	185 175	185 891	192 254	196 531	216 325	220 204	208 242	211 762	229 576
Türkiye	90 219	87 239	96 698	132 264	128 348	118 555	137 830	140 026	162 897

Total renewable energy

Total énergies renouvelables

Total energías renovables

PROD (GWh)	2016	2017	2018	2019	2020	2021	2022	2023	2024
Europe	1 196 839	1 211 306	1 298 954	1 331 788	1 451 531	1 472 926	1 461 352	1 640 200	1 758 038
Albania	7 783	4 526	8 553	5 206	5 313	8 963	7 003	9 006	8 256
Andorra	99	103	135	159	142	97	88	91	110
Austria	51 082	51 055	50 054	54 634	55 424	52 754	50 415	60 156	67 779
Belarus	392	754	774	1 013	1 347	1 298	1 276	1 205	1 300
Belgium	14 262	15 805	17 182	19 474	23 461	22 750	24 432	27 471	26 538
Bosnia Herzg	5 690	3 818	6 550	6 393	4 900	7 186	5 248	7 395	6 115
Bulgaria	7 046	6 131	9 380	7 485	7 466	10 308	9 640	10 059	11 370
Croatia	8 356	7 116	9 781	8 347	8 551	10 528	8 951	12 227	11 128
Cyprus	425	435	477	515	597	775	884	1 093	1 366
Czechia	9 385	9 627	9 431	10 056	10 352	10 645	10 767	11 147	12 348
Denmark	18 390	21 798	20 759	23 092	23 638	26 432	28 828	29 717	31 755
Estonia	1 588	1 859	1 989	2 143	2 971	2 879	2 856	2 805	3 597
Faroe Islands	159	171	172	156	157	161	227	230	272
Finland	30 412	31 475	32 139	31 883	35 927	38 174	38 668	42 302	46 672
France	99 437	92 417	114 430	113 664	125 730	122 748	114 254	141 308	156 152
Germany	189 672	216 323	222 075	240 332	251 481	233 638	252 267	278 765	289 417
Greece	14 893	13 801	16 148	16 097	17 554	22 137	22 447	24 386	27 691
Hungary	3 258	3 480	3 766	4 690	5 529	6 915	7 662	9 373	11 937
Iceland	18 549	19 240	19 832	19 492	19 130	19 617	20 123	20 245	19 608
Ireland	7 614	9 004	10 343	11 960	13 652	11 769	13 257	14 283	14 512
Italy	108 035	103 910	114 427	115 860	116 927	116 352	100 479	116 591	134 370
Kosovo*	246	180	304	314	364	439	637	806	572
Latvia	3 481	5 462	3 499	3 192	3 650	3 718	3 817	4 963	4 642
Lithuania	2 095	2 538	2 205	2 469	2 575	2 622	3 027	4 437	6 261
Luxembourg	457	600	683	797	976	990	1 042	1 257	1 373
Malta	136	172	199	202	243	263	296	318	336
Moldova Rep	249	317	324	365	354	429	471	517	534
Montenegro	1 843	1 121	2 256	1 929	1 766	2 333	1 772	2 550	2 122
Netherlands	15 308	18 101	18 882	22 803	32 729	40 433	48 093	56 917	62 099
North Macedonia	2 067	1 296	1 966	1 344	1 475	1 660	1 605	2 216	2 481
Norway	145 180	145 519	143 137	131 189	152 055	156 075	143 477	151 302	155 266
Poland	22 832	24 155	21 651	25 492	28 260	30 602	37 723	45 889	52 674
Portugal	32 311	22 573	29 402	27 406	30 100	31 541	27 606	34 352	40 453
Romania	26 969	24 282	26 195	24 635	24 607	26 344	23 609	28 357	24 442
Serbia	10 876	9 304	10 921	10 521	10 185	12 602	9 951	13 876	12 097
Slovakia	6 629	6 532	5 806	6 644	6 857	6 778	5 822	6 709	7 108
Slovenia	5 058	4 448	5 233	5 040	5 583	5 449	4 069	6 308	6 870
Spain	104 680	87 973	103 941	101 027	113 822	125 787	122 960	143 814	161 019
Sweden	89 127	95 058	91 153	98 933	112 143	115 737	118 236	115 246	119 578
Switzerland	37 833	37 789	38 907	42 276	42 774	42 203	36 270	44 639	53 790
UK	82 989	98 879	110 131	119 727	133 630	122 482	135 223	136 751	144 058
Ukraine	9 949	12 158	13 760	12 834	17 136	18 316	15 878	19 116	17 971
European Union	872 937	876 132	941 231	978 870	1 060 802	1 079 066	1 082 106	1 230 253	1 333 488
Middle East	24 869	23 439	26 662	51 795	46 453	38 787	50 785	64 568	75 756
Bahrain	12	12	12	19	19	39	85	94	117
Iran IR	16 710	15 468	16 597	32 158	23 200	13 668	18 276	18 646	18 646
Iraq	3 431	2 236	2 197	5 342	4 541	3 725	3 030	1 762	1 762
Israel	1 764	1 948	2 136	3 412	4 484	5 631	6 511	9 141	11 097
Jordan	865	1 385	2 162	3 001	4 282	5 158	6 123	6 240	6 602
Kuwait	49	51	55	62	60	214	250	172	172
Lebanon	434	507	465	1 109	1 189	1 011	1 995	2 083	2 083
Oman	4	16	49	59	159	802	1 670	2 157	2 257
Palestine	44	47	62	126	181	230	348	428	436
Qatar	131	137	143	126	143	143	729	2 016	2 016
Saudi Arabia	46	70	219	266	834	891	2 669	6 259	13 375
Syrian AR	902	612	872	1 958	1 668	515	825	325	862
United Arab Em	322	750	1 204	3 663	5 194	6 262	7 766	14 736	15 823
Yemen	156	200	491	492	499	499	511	510	509
N America	1 117 825	1 211 802	1 234 084	1 255 473	1 335 203	1 385 421	1 495 117	1 451 108	1 534 639
Canada	431 808	441 401	434 498	429 785	437 045	436 043	452 495	417 840	411 804
Greenland	414	401	432	424	445	447	479	492	495
Mexico	48 527	51 826	55 977	58 229	70 325	82 657	82 912	70 698	73 101
USA	637 076	718 174	743 177	767 035	827 387	866 274	959 231	962 078	1 049 239

Total renewable energy

Total énergies renouvelables

Total energías renovables

PROD (GWh)	2016	2017	2018	2019	2020	2021	2022	2023	2024
Oceania	76 789	78 940	84 375	91 461	98 195	109 552	125 059	133 741	138 336
Amer Samoa	6	8	8	7	7	6	4	4	3
Australia	37 151	40 206	44 425	51 659	59 544	70 359	83 282	91 690	96 962
Cook Is	5	6	10	10	9	7	7	9	7
Fiji	555	571	665	669	683	658	727	670	745
Fr Polynesia	220	214	205	202	204	190	245	207	260
Guam	67	63	75	78	81	84	141	141	141
Kiribati	2	3	3	3	3	3	3	7	7
Marshall Is	2	2	2	2	2	2	2	3	4
Micronesia	7	7	8	9	12	12	12	12	12
Nauru	0	1	1	2	3	5	5	5	5
New Caledon	289	434	409	458	504	654	808	787	742
New Zealand	37 366	36 389	37 443	37 103	35 883	36 307	38 736	39 112	38 353
Niue	0	0	0	0	0	0	0	0	0
Palau	3	3	4	4	4	6	6	29	29
Papua N Guin	1 038	945	1 010	1 142	1 142	1 145	981	953	953
Samoa	46	55	69	69	70	74	56	66	64
Solomon Is	7	8	7	7	7	7	10	11	12
Tokelau	2	2	2	2	2	2	2	2	2
Tonga	5	6	7	9	11	9	10	12	12
Tuvalu	2	2	2	2	2	2	2	2	2
Vanuatu	16	17	19	23	23	20	19	19	19
S America	773 382	805 744	836 074	850 453	851 565	848 449	955 104	1 016 963	1 046 755
Argentina	42 160	45 618	46 659	46 724	46 320	45 746	53 865	64 504	62 854
Bolivia	1 937	2 464	2 967	3 725	3 583	4 162	4 182	3 593	4 137
Brazil	465 539	466 754	494 912	515 020	522 387	507 197	593 516	629 884	661 179
Chile	34 480	34 920	38 136	39 421	40 958	43 159	50 542	57 618	63 460
Colombia	48 559	59 084	58 555	56 394	51 858	63 063	66 861	63 085	59 903
Ecuador	16 446	20 658	21 224	25 218	24 910	26 077	25 124	25 954	23 374
Falklands Malv	6	6	5	5	4	5	5	5	5
Fr Guiana	499	626	598	469	497	675	681	636	436
Guyana	45	39	32	33	36	36	37	45	45
Paraguay	63 906	59 813	59 344	49 583	46 512	40 688	44 082	53 019	42 679
Peru	22 731	30 796	33 300	34 333	33 713	35 167	33 106	32 920	37 832
South Georgia	1	0	1	1	1	1	1	1	1
Suriname	796	939	1 014	966	899	1 089	1 185	1 172	1 174
Uruguay	13 168	13 838	13 941	15 650	12 621	13 450	13 335	11 796	16 944
Venezuela	63 109	70 188	65 386	62 909	67 267	67 935	68 583	72 731	72 734

Hydropower

Hydroélectricité

Hidroeléctrica

CAP (MW)	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
World	1 255 913	1 277 151	1 296 677	1 312 438	1 334 488	1 362 715	1 396 603	1 411 834	1 427 095	1 455 684
Africa	30 865	33 957	35 329	36 175	36 999	37 538	39 289	41 073	43 317	48 914
Algeria	228	228	228	228	209	129	129	129	129	129
Angola	1 700	2 393	3 061	3 395	3 729	3 729	3 729	3 729	3 729	3 729
Benin	1	1	1	1	1	1	1	1	1	1
Burkina Faso	32	32	32	32	32	32	32	34	34	34
Burundi	51	48	48	48	48	48	63	63	63	164
Cameroon	732	732	732	813	813	813	814	960	1 410	1 410
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	2 429	2 440	2 598	2 608	2 608	2 608	2 932	3 188	3 247	3 247
Congo Rep	201	214	214	214	214	214	214	214	214	214
Cote d'Ivoire	604	879	879	879	879	879	879	879	990	990
Egypt	2 800	2 800	2 832	2 832	2 832	2 832	2 832	2 832	2 832	2 832
Eq Guinea	126	126	127	127	127	127	127	127	127	127
Eswatini	62	62	62	62	62	62	62	64	64	64
Ethiopia	2 159	3 817	3 817	3 817	4 071	4 071	4 821	4 883	5 221	9 214
Gabon	171	172	172	320	320	320	320	320	320	320
Ghana	1 584	1 584	1 584	1 584	1 584	1 584	1 584	1 584	1 584	1 584
Guinea	369	369	369	364	589	814	814	814	814	814
Kenya	830	841	845	852	854	858	858	893	892	893
Lesotho	74	74	74	74	74	74	74	74	75	75
Liberia	27	93	93	93	93	93	93	93	93	95
Madagascar	164	164	164	164	164	164	192	193	193	193
Malawi	373	373	373	373	373	393	393	393	393	393
Mali	315	315	315	315	315	315	455	455	455	455
Mauritius	61	61	61	61	61	61	61	62	62	62
Morocco	1 770	1 770	1 770	1 770	1 770	1 770	1 770	1 770	2 120	2 120
Mozambique	2 193	2 193	2 193	2 193	2 194	2 194	2 194	2 194	2 194	2 194
Namibia	347	347	347	347	351	351	351	351	351	351
Nigeria	2 111	2 111	2 111	2 111	2 111	2 111	2 111	2 901	2 901	2 901
Reunion	133	133	133	133	133	134	134	134	134	134
Rwanda	98	98	98	108	118	118	124	124	153	111
Sao Tome Prn	2	2	2	2	2	2	2	2	2	2
Senegal										127
Sierra Leone	56	61	61	61	61	61	61	61	61	61
South Africa	3 147	3 480	3 480	3 480	3 480	3 484	3 484	3 484	3 484	3 484
Sudan	1 322	1 322	1 482	1 482	1 482	1 482	1 482	1 482	1 482	1 482
Tanzania	587	589	595	596	598	599	599	680	1 385	2 795
Togo	67	67	67	67	67	67	67	67	67	67
Tunisia	62	62	66	66	66	66	66	66	66	66
Uganda	695	707	744	1 005	1 016	1 073	1 100	1 511	1 711	1 718
Zambia	2 388	2 398	2 398	2 399	2 400	2 706	3 165	3 165	3 165	3 165
Zimbabwe	776	780	1 080	1 080	1 080	1 080	1 080	1 080	1 080	1 080
Asia	516 807	530 823	543 955	555 018	570 483	594 316	620 421	629 882	648 589	668 323
Afghanistan	329	349	349	349	349	366	468	468	470	487
Bangladesh	230	230	230	230	230	230	230	230	230	230
Bhutan	1 614	1 614	1 614	2 334	2 334	2 334	2 334	2 334	2 452	3 490
Cambodia	930	980	1 330	1 330	1 330	1 330	1 332	1 332	1 796	1 801
China	332 070	343 775	352 261	358 040	370 160	390 920	413 500	421 540	435 950	448 020
China HK SAR	1	1	1	1	1	1	1	1	1	1
Chinese Taipei	4 691	4 691	4 693	4 694	4 695	4 696	4 700	4 706	4 725	4 726
India	47 622	49 521	50 102	50 279	50 763	51 566	52 003	52 105	52 274	56 278
Indonesia	5 666	5 703	5 772	5 976	6 121	6 602	6 689	6 570	7 052	7 587
Japan	50 058	50 014	50 037	50 033	50 033	49 929	50 008	50 066	50 095	50 157
Kazakhstan	2 696	2 726	2 756	2 778	2 785	2 807	2 807	2 903	2 810	2 848
Korea DPR	4 701	4 761	4 790	4 790	4 865	4 865	4 890	4 910	4 970	4 970
Korea Rep	6 490	6 494	6 498	6 509	6 507	6 521	6 513	6 517	6 515	6 527
Kyrgyzstan	3 677	3 689	3 673	3 673	3 674	2 780	3 144	3 143	3 314	3 427
Lao PDR	4 869	5 109	5 387	6 229	8 018	8 961	9 651	9 776	10 189	10 357
Malaysia	6 116	5 895	6 169	6 191	6 189	6 218	6 227	6 268	6 268	6 268
Mongolia	31	31	31	31	29	29	29	29	29	30
Myanmar	3 262	3 262	3 269	3 269	3 269	3 269	3 269	3 269	3 269	3 269
Nepal	811	916	1 038	1 159	1 281	1 971	2 197	2 675	3 293	3 810
Pakistan	7 254	7 406	9 906	9 925	10 045	10 045	10 636	10 636	11 520	11 520
Philippines	3 624	3 634	3 720	3 763	3 781	3 784	3 775	3 832	3 869	3 889
Sri Lanka	1 726	1 745	1 797	1 813	1 797	1 801	1 831	1 845	1 969	1 969
Tajikistan	4 957	4 958	4 958	5 718	5 718	5 718	5 737	5 737	5 737	5 841
Thailand	3 649	3 649	3 668	3 668	3 670	3 670	3 686	3 692	3 692	3 692
Timor Leste	0	0	0	0	0	0	0	0	0	0
Turkmenistan	1	1	1	1	1	2	2	2	2	2
Uzbekistan	1 880	1 858	1 915	1 908	2 021	2 052	2 225	2 382	2 391	2 441
Viet Nam	17 849	17 809	17 989	20 326	20 817	21 847	22 535	22 915	23 707	24 683

Hydropower

Hydroélectricité

Hidroeléctrica

CAP (MW)	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
C America + Carib	7 615	7 762	8 046	8 158	8 275	8 328	8 373	8 487	8 475	8 483
Belize	55	55	55	55	55	55	55	55	55	55
Costa Rica	2 329	2 329	2 373	2 344	2 332	2 379	2 331	2 372	2 353	2 342
Cuba	70	70	68	68	68	68	69	69	69	69
Dominica	7	7	7	7	7	7	7	8	8	8
Dominican Rep	613	614	616	625	625	625	624	624	625	625
El Salvador	495	574	575	576	574	572	572	638	643	643
Guadeloupe	9	11	11	11	11	11	11	11	11	11
Guatemala	1 393	1 438	1 502	1 575	1 578	1 572	1 574	1 575	1 575	1 575
Haiti	58	58	80	80	80	80	78	78	78	79
Honduras	677	682	713	736	844	856	916	916	918	938
Jamaica	30	30	30	30	30	30	30	30	30	30
Martinique				0	0					
Nicaragua	142	142	142	157	157	158	159	160	158	158
Panama	1 632	1 647	1 770	1 791	1 810	1 810	1 845	1 847	1 848	1 848
Puerto Rico	98	98	98	98	98	98	98	98	98	97
St Vincent Gren	6	6	6	6	6	6	6	6	6	6
Eurasia	83 133	84 058	85 314	86 460	89 077	89 789	90 177	93 529	91 317	91 638
Armenia	1 312	1 327	1 336	1 340	1 350	1 345	1 345	1 358	1 351	1 336
Azerbaijan	1 105	1 106	1 131	1 145	1 149	1 157	1 165	1 302	1 407	1 444
Georgia	3 160	3 113	3 220	3 300	3 323	3 354	3 379	3 450	3 414	3 515
Russian Fed	50 875	51 239	51 335	52 172	52 271	52 440	52 717	55 457	52 942	53 050
Türkiye	26 681	27 273	28 291	28 503	30 984	31 493	31 571	31 962	32 203	32 294
Europe	217 976	219 589	220 632	221 553	223 038	224 173	226 685	226 784	224 228	225 279
Albania	1 913	2 047	2 105	2 162	2 387	2 507	2 493	2 519	2 556	2 620
Andorra	46	46	46	46	46	46	46	46	46	46
Austria	14 116	14 150	14 516	14 597	14 635	14 747	14 923	14 952	15 186	15 759
Belarus	74	95	95	95	96	96	96	97	86	86
Belgium	1 416	1 414	1 415	1 411	1 413	1 418	1 430	1 429	1 431	1 412
Bosnia Herzg	2 180	2 211	2 236	2 239	2 249	2 257	2 258	2 262	2 298	2 299
Bulgaria	3 223	3 372	3 379	3 378	3 376	3 369	3 422	3 424	3 418	3 418
Croatia	2 192	2 193	2 200	2 200	2 200	2 201	2 206	2 190	2 190	2 190
Czechia	2 262	2 265	2 264	2 265	2 265	2 285	2 285	2 288	2 290	2 289
Denmark	9	7	7	7	7	7	7	7	7	7
Estonia	6	7	7	6	8	6	8	10	8	8
Faroe Islands	39	39	40	40	40	40	40	40	40	40
Finland	3 133	3 156	3 152	3 157	3 164	3 171	3 171	3 169	3 209	3 218
France	25 621	25 707	25 727	25 868	25 899	25 936	25 909	26 058	26 024	26 035
Germany	11 207	11 120	10 684	10 733	10 808	10 844	10 923	10 951	10 821	11 031
Greece	3 392	3 392	3 409	3 412	3 417	3 421	3 421	3 459	3 481	3 488
Hungary	57	57	57	58	58	60	60	60	61	61
Iceland	1 987	1 995	2 099	2 104	2 114	2 114	2 105	2 147	2 132	2 132
Ireland	529	529	529	529	529	529	529	529	529	529
Italy	22 298	22 426	22 499	22 541	22 695	22 750	22 861	22 912	23 294	23 316
Kosovo*	78	80	80	85	110	110	110	110	110	110
Latvia	1 564	1 564	1 565	1 587	1 586	1 587	1 588	1 588	1 588	1 588
Lithuania	877	877	877	877	877	877	877	877	877	877
Luxembourg	1 330	1 331	1 330	1 330	1 331	1 331	1 330	1 330	1 330	1 330
Moldova Rep	64	64	64	64	64	64	64	65	65	65
Montenegro	668	675	676	676	697	697	697	697	705	705
Netherlands	37	37	37	37	37	38	38	38	38	38
North Macedonia	661	688	693	698	706	706	719	720	720	720
Norway	31 817	31 912	32 530	32 797	33 732	34 075	34 269	34 291	34 549	34 648
Poland	2 385	2 390	2 391	2 397	2 400	2 398	2 407	2 410	2 276	2 277
Portugal	6 960	7 226	7 236	7 262	7 241	7 255	8 189	8 187	8 362	8 372
Romania	6 734	6 692	6 701	6 686	6 652	6 662	6 663	6 687	6 659	6 711
Serbia	3 030	3 038	3 043	3 074	3 082	3 085	3 107	3 125	3 125	3 128
Slovakia	2 524	2 523	2 528	2 527	2 529	2 531	2 532	2 531	2 529	2 529
Slovenia	1 293	1 347	1 343	1 351	1 352	1 352	1 346	1 351	1 353	1 321
Spain	20 080	20 079	20 080	20 114	20 117	20 132	20 137	20 140	20 140	20 121
Sweden	16 466	16 502	16 431	16 462	16 406	16 407	16 399	16 406	16 269	16 305
Switzerland	14 806	15 353	15 542	15 574	15 594	15 612	16 568	16 597	16 677	16 702
UK	4 733	4 770	4 777	4 780	4 785	4 790	4 791	4 759	4 799	4 799
Ukraine	6 167	6 213	6 243	6 325	6 334	6 662	6 662	6 327	2 950	2 950
European Union	149 712	150 362	150 364	150 793	151 001	151 312	152 659	152 984	153 371	154 230
Middle East	15 881	15 535	15 681	15 764	16 075	16 073	16 423	16 599	16 701	17 350
Iran IR	11 578	11 953	12 099	12 182	12 193	12 193	12 543	12 719	12 821	12 821
Iraq	2 514	1 797	1 797	1 797	1 797	1 797	1 797	1 797	1 797	1 797
Israel	7	7	7	7	307	307	307	307	307	651
Jordan	6	6	6	6	6	4	4	4	4	4
Lebanon	282	282	282	282	282	282	282	282	282	282
Syrian AR	1 494	1 490	1 490	1 490	1 490	1 490	1 490	1 490	1 490	1 545
United Arab Em										250
N America	195 667	196 253	197 089	197 387	197 814	199 477	199 804	199 825	199 806	200 370
Canada	80 304	80 831	81 570	81 570	81 383	83 067	83 672	83 672	83 732	84 300
Greenland	91	91	91	91	91	91	91	91	91	91
Mexico	12 580	12 628	12 628	13 076	13 301	13 303	12 838	12 838	12 838	12 838
USA	102 692	102 703	102 800	102 650	103 039	103 016	103 202	103 224	103 144	103 140

Hydropower

Hydroélectricité

Hidroeléctrica

CAP (MW)	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Oceania	14 278	14 284	14 536	14 548	14 589	14 590	14 613	14 679	14 701	14 709
Australia	8 271	8 271	8 523	8 523	8 523	8 523	8 523	8 523	8 523	8 523
Fiji	138	138	138	138	138	138	138	138	138	138
Fr Polynesia	47	48	48	49	49	49	49	49	49	49
Micronesia	1	1	1	1	1	1	1	1	1	1
New Caledon	78	78	78	78	81	81	81	81	81	81
New Zealand	5 496	5 496	5 496	5 504	5 541	5 542	5 559	5 559	5 581	5 580
Papua N Guin	241	241	241	241	241	241	244	309	309	318
Samoa	5	9	10	13	13	13	16	16	16	16
Solomon Is	0	0	0	0	0	0	0	0	0	0
Vanuatu	1	1	1	1	1	1	1	2	2	2
S America	173 690	174 890	176 093	177 374	178 138	178 431	180 819	180 977	179 961	180 618
Argentina	11 246	11 249	11 294	11 316	11 350	11 351	11 364	11 364	10 169	10 168
Bolivia	484	602	735	735	736	736	736	736	717	717
Brazil	106 584	107 549	107 748	109 095	109 276	109 409	109 756	109 917	109 977	110 269
Chile	6 672	6 657	6 628	6 342	6 820	6 798	7 504	7 412	7 328	7 502
Colombia	11 606	11 731	11 842	11 930	11 959	11 954	13 182	13 224	13 224	13 216
Ecuador	4 446	4 516	5 066	5 076	5 098	5 099	5 191	5 192	5 419	5 389
Fr Guiana	124	124	124	124	124	124	124	124	124	124
Guyana	2	2	2	2	2	2	2	2	3	5
Paraguay	8 800	8 800	8 800	8 824	8 824	8 824	8 824	8 824	8 824	8 824
Peru	5 179	5 113	5 230	5 387	5 406	5 503	5 504	5 549	5 544	5 773
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	16 829	16 829	16 906	16 826	16 826	16 914	16 914	16 914	16 914	16 914

Hydropower

Hydroélectricité

Hidroeléctrica

PROD (GWh)	2016	2017	2018	2019	2020	2021	2022	2023	2024
World	4 160 675	4 218 034	4 332 254	4 378 547	4 497 128	4 424 604	4 489 432	4 422 358	4 633 061
Africa	126 299	134 320	143 573	150 376	155 343	162 652	167 293	167 222	172 731
Algeria	72	56	117	152	50	9	16	23	23
Angola	6 286	8 844	11 323	12 562	13 802	13 802	13 802	13 802	13 802
Benin	0	0	0	0	0	0	0	0	0
Burkina Faso	139	128	91	105	112	127	82	89	98
Burundi	246	171	204	222	267	242	278	368	494
Cameroon	4 359	4 753	5 033	5 026	5 233	5 233	5 233	5 233	5 233
Cent Afr Rep	131	141	141	141	141	141	141	141	141
Comoros	0	0							
Congo DR	8 828	9 406	10 517	11 497	12 564	13 424	13 303	13 424	13 716
Congo Rep	1 132	1 203	1 046	1 046	1 046	1 046	1 046	1 046	1 046
Cote d'Ivoire	1 529	2 047	2 962	3 481	3 376	2 627	2 864	3 200	3 411
Egypt	13 545	12 850	12 726	13 121	15 038	14 646	15 458	15 056	15 810
Eq Guinea	471	438	443	477	489	470	471	348	446
Eswatini	154	124	189	225	231	259	297	395	372
Ethiopia	9 674	11 753	12 681	13 655	14 404	14 943	14 882	17 126	19 870
Gabon	822	915	982	960	912	912	912	912	912
Ghana	5 561	5 616	6 017	7 252	7 293	7 521	8 192	8 193	9 893
Guinea	1 084	1 212	1 191	1 289	1 493	2 645	2 947	3 345	3 787
Kenya	3 629	3 373	3 574	3 808	4 021	3 861	3 100	3 115	3 550
Lesotho	511	502	516	392	426	531	480	480	480
Liberia	25	128	128	128	128	248	253	349	333
Madagascar	917	815	1 000	920	850	800	855	1 018	986
Malawi	1 894	1 586	1 425	1 675	1 675	1 694	1 694	1 694	1 694
Mali	1 905	2 081	1 197	762	782	721	888	969	970
Mauritius	101	91	126	100	117	108	130	96	123
Morocco	1 662	1 565	1 998	1 654	1 290	1 213	679	516	686
Mozambique	15 615	14 067	13 910	14 829	15 714	15 477	16 184	16 361	16 327
Namibia	1 477	1 370	1 049	1 230	1 237	875	1 052	1 695	2 059
Nigeria	8 150	7 750	7 695	8 433	7 872	9 154	9 235	9 426	12 811
Reunion	465	422	601	418	423	358	634	394	419
Rwanda	329	307	334	399	520	555	514	498	526
Sao Tome Prn	6	5	5	6	6	6	6	6	6
Sierra Leone	219	228	228	228	228	228	228	228	228
South Africa	3 827	4 880	5 532	5 737	6 094	6 581	7 995	6 182	5 499
Sudan	8 051	9 347	9 657	10 210	11 008	10 061	10 061	10 061	10 061
Tanzania	2 442	2 430	2 314	2 561	3 229	3 163	2 645	2 693	2 858
Togo	204	204	100	125	75	86	18	48	21
Tunisia	45	17	17	66	46	28	15	9	16
Uganda	3 219	3 369	3 567	3 968	3 990	4 263	4 832	3 437	3 462
Zambia	11 086	12 514	13 765	12 404	12 879	16 147	17 130	17 144	10 794
Zimbabwe	6 485	7 611	9 169	9 113	6 279	8 447	8 739	8 101	9 766
Asia	1 690 446	1 740 176	1 783 999	1 845 498	1 927 276	1 926 841	1 977 314	1 884 498	2 045 128
Afghanistan	1 025	1 043	922	1 136	1 046	881	759	773	1 174
Bangladesh	1 021	1 051	915	812	777	734	711	756	942
Bhutan	7 953	7 728	6 959	8 876	11 370	10 822	10 771	10 762	11 670
Cambodia	2 568	2 711	4 737	4 025	3 860	5 044	5 898	4 840	7 228
China	1 193 370	1 197 870	1 231 790	1 304 440	1 355 210	1 339 000	1 352 200	1 285 850	1 423 900
China HK SAR	2	3	3	3	2	2	2	2	2
Chinese Taipei	9 856	8 781	7 852	8 753	6 178	6 659	8 899	7 014	7 284
India	130 177	131 366	136 658	149 561	164 695	161 568	165 513	166 413	148 264
Indonesia	18 728	18 683	21 637	21 161	24 325	24 697	27 295	24 590	27 290
Japan	85 665	91 103	88 348	87 653	87 548	88 883	86 007	85 053	84 200
Kazakhstan	11 621	11 210	10 395	9 994	9 660	9 208	9 142	8 809	11 285
Korea DPR	12 800	11 900	12 800	11 000	12 800	16 100	16 600	15 800	15 600
Korea Rep	6 646	7 017	7 285	6 249	7 150	6 740	7 260	7 502	8 980
Kyrgyzstan	11 498	14 204	14 318	13 859	13 979	12 957	11 929	12 031	12 936
Lao PDR	24 868	31 066	33 742	28 980	32 792	36 738	38 717	36 387	40 630
Malaysia	20 358	26 717	26 296	26 281	27 302	30 987	31 936	32 015	33 699
Mongolia	87	86	81	87	85	85	64	50	76
Myanmar	9 745	11 192	11 229	9 370	8 372	4 796	9 071	5 885	6 736
Nepal	3 825	4 423	4 745	5 521	6 182	7 913	10 168	11 422	13 122
Pakistan	33 440	30 419	30 636	35 987	39 238	37 533	36 218	36 218	47 670
Philippines	8 111	9 611	9 384	8 025	7 192	9 293	10 226	10 427	11 030
Sri Lanka	4 245	4 028	6 408	4 819	4 984	7 234	6 767	5 978	6 926
Tajikistan	16 803	17 312	18 573	19 348	19 348	19 348	19 879	20 603	20 879
Thailand	3 650	4 835	7 781	6 443	4 683	4 683	6 854	6 760	6 607
Timor Leste	2	2	2	2					
Turkmenistan	3	3	3	3	3	3	3	3	3
Uzbekistan	8 100	8 100	5 897	6 452	5 000	5 000	6 500	6 830	8 160
Viet Nam	64 280	87 712	84 602	66 655	73 495	79 932	97 927	81 727	88 836

Hydropower

Hydroélectricité

Hidroeléctrica

PROD (GWh)	2016	2017	2018	2019	2020	2021	2022	2023	2024
C America + Carib	24 553	29 717	27 208	23 139	28 796	31 812	33 559	27 045	30 377
Belize	261	282	250	75	242	158	239	177	177
Costa Rica	8 028	8 679	8 345	7 828	8 296	9 287	9 450	8 329	8 275
Cuba	64	83	146	131	119	127	127	113	98
Dominica	36	27	24	20	19	20	23	20	25
Dominican Rep	1 519	2 196	1 780	1 060	1 293	1 501	1 465	1 165	1 453
El Salvador	1 344	1 705	1 632	1 527	2 072	1 821	2 239	1 490	2 122
Guadeloupe	34	38	40	44	25	11	12	12	15
Guatemala	3 951	5 765	5 191	4 381	5 817	5 960	6 942	5 572	5 334
Haiti	71	127	197	200	200	200	200	200	214
Honduras	2 241	2 970	3 259	2 430	2 707	3 777	3 894	3 218	3 846
Jamaica	115	150	176	153	134	138	119	110	122
Martinique				0	0				
Nicaragua	427	468	411	226	574	598	650	470	725
Panama	6 375	7 155	5 696	5 000	7 226	8 154	8 134	6 109	7 899
Puerto Rico	71	51	38	41	51	40	45	38	48
St Vincent Gren	16	20	24	22	22	19	19	23	23
Eurasia	267 510	258 575	265 928	298 201	303 579	285 588	283 886	282 765	312 591
Armenia	2 351	2 269	2 318	2 371	1 778	2 202	2 846	1 646	2 059
Azerbaijan	1 959	1 746	1 768	1 565	1 070	1 277	1 596	1 763	3 008
Georgia	9 329	9 210	9 949	8 932	8 248	10 182	10 771	10 863	11 344
Russian Fed	186 640	187 131	193 027	196 510	214 389	216 000	201 870	204 490	221 326
Türkiye	67 231	58 218	58 865	88 823	78 094	55 927	66 802	64 002	74 853
Europe	613 454	557 419	612 977	567 095	611 661	620 968	525 546	605 881	649 936
Albania	7 782	4 525	8 552	5 184	5 281	8 922	6 842	8 709	7 471
Andorra	84	85	114	137	121	79	67	70	88
Austria	43 008	42 175	41 219	44 204	45 344	42 540	39 141	44 523	49 356
Belarus	142	405	324	351	399	370	372	365	330
Belgium	1 489	1 397	1 308	1 180	1 315	1 350	1 646	1 652	1 613
Bosnia Herzg	5 687	3 987	6 519	6 172	4 663	6 796	4 739	6 761	5 096
Bulgaria	4 568	3 493	5 423	3 383	3 320	5 067	3 833	3 130	2 904
Croatia	7 051	5 508	7 785	5 933	5 810	7 229	5 574	8 248	6 878
Czechia	3 202	3 040	2 679	3 175	3 437	3 620	3 083	3 427	3 585
Denmark	19	18	15	17	17	16	15	20	23
Estonia	35	26	15	19	30	23	23	24	30
Faroe Islands	106	111	108	104	109	100	131	100	111
Finland	15 799	14 771	13 301	12 420	15 883	15 791	13 492	15 200	14 299
France	65 686	55 135	70 472	61 572	67 024	63 868	51 010	60 089	76 772
Germany	26 134	26 155	23 863	25 671	25 275	24 972	23 575	26 687	30 175
Greece	5 565	4 040	5 760	4 051	3 440	5 961	4 000	4 044	4 068
Hungary	259	220	222	219	244	212	178	222	231
Iceland	13 470	14 059	13 814	13 461	13 157	13 804	14 196	14 226	13 604
Ireland	973	895	932	1 132	1 224	1 036	948	1 238	1 099
Italy	44 257	38 025	50 503	48 154	49 495	47 478	30 291	42 068	54 757
Kosovo*	245	179	273	213	263	297	260	393	213
Latvia	2 530	4 381	2 432	2 108	2 603	2 708	2 750	3 794	3 209
Lithuania	1 044	1 181	960	948	1 080	1 094	1 021	989	1 010
Luxembourg	1 528	1 422	1 337	949	1 094	1 085	1 124	1 237	1 341
Moldova Rep	230	285	272	298	273	313	274	237	46
Montenegro	1 843	1 024	2 113	1 634	1 448	2 010	1 444	2 221	1 765
Netherlands	100	61	72	74	46	88	50	69	85
North Macedonia	1 897	1 110	1 791	1 164	1 277	1 452	1 345	1 623	1 366
Norway	143 417	143 112	139 714	126 030	142 471	144 368	129 366	137 975	140 655
Poland	2 622	3 034	2 387	2 665	2 937	3 101	3 018	3 734	3 124
Portugal	16 909	7 632	13 628	10 243	13 633	13 455	8 839	14 868	18 594
Romania	18 536	14 853	18 097	16 006	15 701	17 745	14 360	18 649	14 511
Serbia	11 520	9 752	11 393	10 198	9 749	11 984	9 274	13 080	10 512
Slovakia	4 606	4 623	3 879	4 571	4 799	4 552	3 963	5 028	5 317
Slovenia	4 782	4 141	4 893	4 683	5 225	4 997	3 401	5 322	5 619
Spain	39 865	21 070	36 803	26 874	33 998	32 847	22 102	31 105	40 822
Sweden	62 137	65 168	62 250	65 393	72 440	73 926	69 967	66 240	64 663
Switzerland	36 693	37 036	37 806	40 966	41 026	39 899	33 839	41 192	48 825
UK	8 329	8 754	7 942	7 689	8 445	7 312	7 058	7 287	7 855
Ukraine	9 304	10 531	12 007	7 855	7 564	8 502	8 935	10 033	7 915
European Union	372 705	322 463	370 234	345 642	375 416	374 760	307 402	361 609	404 084
Middle East	21 083	18 259	18 791	38 871	28 827	16 725	20 766	19 039	19 536
Iran IR	16 419	15 051	15 765	31 003	22 007	12 267	16 706	16 941	16 941
Iraq	3 374	2 178	1 820	4 966	4 164	3 348	2 653	1 385	1 385
Israel								2	2
Jordan	42	38	23	18	18	18	19	22	21
Lebanon	382	415	348	965	1 025	670	700	500	500
Syrian AR	867	577	835	1 919	1 613	422	688	188	686
N America	708 050	752 720	735 915	716 638	722 320	692 062	713 215	651 016	639 434
Canada	385 505	394 659	385 967	381 843	386 617	382 502	397 797	360 850	346 979
Greenland	401	388	418	409	430	433	467	480	484
Mexico	30 031	32 559	32 526	23 815	27 060	35 031	35 883	20 796	24 012
USA	292 113	325 114	317 004	310 571	308 213	274 096	279 068	268 890	267 959

Hydropower

Hydroélectricité

Hidroeléctrica

PROD (GWh)	2016	2017	2018	2019	2020	2021	2022	2023	2024
Oceania	43 050	43 290	44 275	43 689	41 558	41 601	45 561	45 210	40 776
Australia	15 318	16 285	16 021	15 967	15 149	15 199	17 011	16 666	14 960
Fiji	496	492	567	560	559	548	599	540	631
Fr Polynesia	183	175	164	159	159	142	194	150	189
Micronesia	1	1	1	1	1	1	1	1	1
New Caledon	232	361	317	285	305	425	539	421	396
New Zealand	25 967	25 180	26 303	25 652	24 318	24 219	26 332	26 558	23 725
Papua N Guin	817	753	847	1 011	1 011	1 011	847	819	819
Samoa	30	35	46	45	47	47	29	46	45
Solomon Is	1	1	1	1	1	1	1	1	1
Vanuatu	5	7	8	8	9	8	9	9	9
S America	666 229	683 557	699 589	695 041	677 768	646 355	722 292	739 680	722 552
Argentina	40 976	44 069	44 201	39 175	32 734	27 331	32 811	42 589	37 680
Bolivia	1 720	2 234	2 612	3 251	2 942	3 237	2 852	2 323	2 859
Brazil	380 911	370 907	388 971	397 877	396 382	362 818	427 114	425 996	421 799
Chile	23 435	21 359	23 427	22 507	21 932	19 516	20 873	23 713	27 083
Colombia	46 919	57 483	56 823	54 655	50 040	60 639	64 481	59 962	54 621
Ecuador	15 834	20 089	20 678	24 641	24 324	25 563	24 635	25 349	22 614
Fr Guiana	435	564	536	409	433	582	591	520	289
Guyana	6	6	6	6	6	6	6	6	8
Paraguay	63 770	59 684	59 211	49 445	46 371	40 574	43 879	52 812	42 437
Peru	20 876	28 921	30 548	31 323	30 475	31 890	29 708	29 088	32 033
South Georgia	1	0	1	1	1	1	1	1	1
Suriname	783	926	1 000	952	885	1 073	1 167	1 151	1 151
Uruguay	7 601	7 277	6 290	8 007	4 051	5 277	5 659	3 519	7 326
Venezuela	62 962	70 039	65 285	62 793	67 194	67 849	68 515	72 651	72 651

Renewable hydropower

Hydroélectricité renouvelable

Hydroeléctrica renovable

CAP (MW)	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
World	1 138 918	1 157 308	1 176 311	1 191 825	1 212 168	1 235 632	1 260 090	1 270 063	1 277 512	1 295 806
Africa	28 002	30 761	32 133	32 979	33 803	34 342	36 093	37 877	39 771	45 368
Algeria	228 o	228 u	228 u	228 u	209 e	129 u	129 u	129 u	129 e	129 u
Angola	1 700 e	2 393 e	3 061 e	3 395 e	3 729 e	3 729 e	3 729 e	3 729 e	3 729 e	3 729 u
Benin	1 o	1 o	1 o	1 o	1 o	1 o	1 o	1 o	1 o	1 o
Burkina Faso	32 o	32 o	32 u	32 u	32 u	32 u	32 u	34 o	34 o	34 u
Burundi	51 u	48 u	48 e	48 e	48 e	48 e	63 e	63 e	63 e	164 e
Cameroon	732 u	732 u	732 u	813 u	813 u	813 u	814 u	960 e	1 410 e	1 410 u
Cent Afr Rep	19 e	19 e	19 e	19 e	19 e	19 e	19 e	19 e	19 e	19 u
Comoros	1 u	1 u	1 u	1 u	1 u	1 u	1 u	1 u	1 e	1 e
Congo DR	2 429 u	2 440 e	2 598 e	2 608 e	2 608 e	2 608 e	2 932 e	3 188 e	3 247 e	3 247 u
Congo Rep	201 u	214 u	214 u	214 u	214 u	214 u	214 u	214 u	214 u	214 u
Cote d'Ivoire	604 o	879 u	879 u	879 u	879 u	879 u	879 o	879 u	990 o	990 o
Egypt	2 800 o	2 800 o	2 832 o	2 832 o	2 832 u	2 832 u	2 832 u	2 832 e	2 832 e	2 832 e
Eq Guinea	126 o	126 u	127 o	127 u	127 u	127 u	127 u	127 u	127 u	127 u
Eswatini	62 e	62 e	62 e	62 e	62 e	62 e	62 e	64 e	64 e	64 u
Ethiopia	2 159 o	3 817 o	3 817 u	3 817 u	4 071 o	4 071 o	4 821 e	4 883 u	5 221 e	9 214 u
Gabon	171 e	172 e	172 e	320 e	320 e	320 e	320 e	320 e	320 e	320 u
Ghana	1 584 o	1 584 o	1 584 u	1 584 u	1 584 e	1 584 e	1 584 e	1 584 e	1 584 e	1 584 u
Guinea	369 e	369 e	369 e	364 e	589 e	814 e	814 e	814 e	814 e	814 u
Kenya	830 e	841 e	845 e	852 e	854 e	858 e	858 e	893 e	892 e	893 u
Lesotho	74 o	74 o	74 o	74 o	74 o	74 o	74 o	74 o	75 o	75 o
Liberia	27 e	93 e	93 e	93 e	93 e	93 e	93 e	93 e	93 e	95 u
Madagascar	164 e	164 e	164 e	164 e	164 e	164 e	192 e	193 e	193 e	193 u
Malawi	373 e	373 e	373 e	373 e	373 e	393 e	393 e	393 e	393 e	393 u
Mali	315 e	315 e	315 e	315 e	315 e	315 e	455 e	455 e	455 e	455 u
Mauritius	61 e	61 e	61 e	61 e	61 e	61 e	61 e	62 e	62 e	62 u
Morocco	1 306 o	1 306 o	1 306 o	1 306 o	1 306 o	1 306 o	1 306 o	1 306 o	1 306 o	1 306 o
Mozambique	2 193 e	2 193 e	2 193 e	2 193 e	2 194 e	2 194 e	2 194 e	2 194 e	2 194 e	2 194 u
Namibia	347 o	347 o	347 o	347 o	351 u	351 u	351 u	351 u	351 u	351 u
Nigeria	2 111 e	2 111 e	2 111 e	2 111 e	2 111 e	2 111 e	2 111 e	2 901 e	2 901 e	2 901 u
Reunion	133 o	133 o	133 o	133 o	133 o	134 o	134 u	134 o	134 o	134 o
Rwanda	98 e	98 e	98 e	108 e	118 e	118 e	124 e	124 e	153 e	111 u
Sao Tome Prn	2 o	2 o	2 o	2 o	2 o	2 o	2 o	2 o	2 o	2 o
Senegal										127 o
Sierra Leone	56 e	61 e	61 e	61 e	61 e	61 e	61 e	61 e	61 e	61 e
South Africa	748 e	748 e	748 e	748 e	748 e	752 e	752 e	752 e	752 e	752 u
Sudan	1 322 u	1 322 u	1 482 u	1 482 u	1 482 u	1 482 u	1 482 u	1 482 u	1 482 u	1 482 u
Tanzania	587 e	589 e	595 e	596 e	598 e	599 e	599 e	680 e	1 385 e	2 795 u
Togo	67 o	67 o	67 o	67 o	67 o	67 o	67 o	67 o	67 o	67 o
Tunisia	62 o	62 o	66 e	66 e	66 e	66 e	66 u	66 u	66 e	66 u
Uganda	695 e	707 e	744 e	1 005 e	1 016 e	1 073 e	1 100 e	1 511 e	1 711 e	1 718 e
Zambia	2 388 e	2 398 e	2 398 e	2 399 e	2 400 e	2 706 e	3 165 e	3 165 e	3 165 e	3 165 u
Zimbabwe	776 e	780 e	1 080 e	1 080 e	1 080 e	1 080 e	1 080 e	1 080 e	1 080 e	1 080 e
Asia	454 837	466 152	478 684	489 447	503 713	522 645	539 350	543 701	554 658	564 711
Afghanistan	329 u	349 u	349 u	349 u	349 u	366 u	468 u	468 u	470 u	487 u
Bangladesh	230 o	230 o	230 u	230 o	230 o	230 u	230 u	230 u	230 u	230 o
Bhutan	1 614 u	1 614 u	1 614 u	2 334 u	2 334 u	2 334 u	2 334 u	2 334 u	2 452 u	3 490 u
Cambodia	930 u	980 u	1 330 u	1 330 u	1 330 u	1 330 u	1 332 u	1 332 u	1 796 u	1 801 u
China	305 380 o	314 385 o	322 271 o	327 750 o	338 670 o	354 530 o	367 710 o	370 600 o	377 260 o	382 080 o
China HK SAR	1 e	1 e	1 e	1 e	1 e	1 e	1 o	1 u	1 e	1 u
Chinese Taipei	2 089 o	2 089 o	2 091 o	2 092 o	2 093 o	2 094 o	2 098 o	2 104 o	2 123 o	2 124 o
India	42 837 u	44 736 u	45 317 u	45 494 u	45 978 u	46 781 u	47 218 u	47 359 u	47 528 u	49 102 u
Indonesia	5 666 u	5 703 u	5 772 u	5 976 o	6 121 u	6 602 u	6 689 u	6 570 u	7 052 o	7 587 u
Japan	28 161 o	28 117 o	28 140 o	28 136 o	28 136 o	28 032 o	28 111 o	28 169 o	28 198 o	28 260 e
Kazakhstan	2 696 o	2 726 o	2 756 u	2 778 u	2 785 e	2 807 e	2 807 e	2 903 e	2 810 u	2 848 u
Korea DPR	4 701 o	4 761 o	4 790 o	4 790 o	4 865 o	4 865 o	4 890 o	4 910 o	4 970 o	4 970 u
Korea Rep	1 790 o	1 794 o	1 798 o	1 809 o	1 807 o	1 821 o	1 813 o	1 817 o	1 815 o	1 827 o
Kyrgyzstan	3 677 o	3 689 o	3 673 u	3 673 u	3 674 e	2 780 o	3 144 o	3 143 u	3 314 u	3 427 u
Lao PDR	4 869 u	5 109 u	5 387 u	6 229 u	8 018 u	8 961 u	9 651 u	9 776 u	10 189 u	10 357 u
Malaysia	6 116 e	5 895 e	6 169 e	6 191 e	6 189 e	6 218 e	6 227 e	6 268 e	6 268 e	6 268 e
Mongolia	31 u	31 u	31 u	31 u	29 e	29 o	29 e	29 u	29 u	30 u
Myanmar	3 262 u	3 262 u	3 269 u	3 269 u	3 269 u	3 269 u	3 269 u	3 269 u	3 269 e	3 269 u
Nepal	811 u	916 u	1 038 u	1 159 u	1 281 u	1 971 u	2 197 u	2 675 u	3 293 u	3 810 u
Pakistan	7 254 e	7 406 e	9 906 e	9 925 e	10 045 e	10 045 u	10 636 u	10 636 u	11 520 u	11 520 u
Philippines	2 888 u	2 898 u	2 984 u	3 027 u	3 045 u	3 048 u	3 039 u	3 096 u	3 133 u	3 153 u
Sri Lanka	1 726 u	1 745 u	1 797 u	1 813 u	1 797 u	1 801 u	1 831 u	1 845 u	1 969 u	1 969 u
Tajikistan	4 957 e	4 958 e	4 958 e	5 718 e	5 718 e	5 718 e	5 737 e	5 737 e	5 737 e	5 841 u
Thailand	3 089 e	3 089 e	3 108 e	3 108 e	3 110 u	3 110 u	3 126 u	3 132 u	3 132 u	3 132 u
Timor Leste	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u
Turkmenistan	1 e	1 e	1 e	1 u	1 e	2 u	2 e	2 u	2 u	2 e
Uzbekistan	1 880 e	1 858 e	1 915 u	1 908 e	2 021 o	2 052 o	2 225 u	2 382 u	2 391 u	2 441 u
Viet Nam	17 849 u	17 809 u	17 989 u	20 326 u	20 817 u	21 847 u	22 535 u	22 915 u	23 707 u	24 683 u

Renewable hydropower

Hydroélectricité renouvelable

Hydroeléctrica renovable

CAP (MW)	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
C America + Carib	7 615	7 762	8 040	8 152	8 269	8 322	8 367	8 481	8 469	8 477
Belize	55 e	55 e	55 e	55 e	55 e	55 e	55 e	55 e	55 e	55 u
Costa Rica	2 329 o	2 329 o	2 373 o	2 344 o	2 332 o	2 379 o	2 331 o	2 372 o	2 353 o	2 342 o
Cuba	70 e	70 e	68 e	68 e	68 e	68 e	69 e	69 e	69 u	69 o
Dominica	7 e	7 e	7 e	7 e	7 e	7 e	7 u	8 u	8 u	8 o
Dominican Rep	613 e	614 e	616 e	625 e	625 e	625 e	624 e	624 e	625 e	625 o
El Salvador	495 e	574 e	575 e	576 e	574 e	572 e	572 e	638 e	643 e	643 u
Guadeloupe	9 e	11 e	11 e	11 e	11 e	11 e	11 e	11 e	11 u	11 o
Guatemala	1 393 e	1 438 e	1 502 e	1 575 e	1 578 e	1 572 e	1 574 e	1 575 e	1 575 e	1 575 u
Haiti	58 u	58 e	80 e	80 e	80 e	80 e	78 u	78 u	78 u	79 u
Honduras	677 e	682 e	707 e	730 e	838 e	850 e	910 e	910 e	912 e	932 u
Jamaica	30 e	30 e	30 u	30 u	30 u	30 u	30 u	30 u	30 u	30 u
Martinique				0 e	0 e					
Nicaragua	142 e	142 o	142 o	157 e	157 e	158 e	159 u	160 u	158 o	158 u
Panama	1 632 e	1 647 e	1 770 e	1 791 e	1 810 e	1 810 e	1 845 e	1 847 e	1 848 e	1 848 o
Puerto Rico	98 e	98 e	98 e	98 e	98 e	98 e	98 e	98 e	98 e	97 o
St Vincent Gren	6 e	6 u	6 u	6 u	6 u	6 u	6 u	6 u	6 u	6 o
Eurasia	81 917	82 842	84 098	85 244	87 861	88 573	88 961	92 313	90 101	90 422
Armenia	1 312 o	1 327 o	1 336 o	1 340 u	1 350 u	1 345 u	1 345 u	1 358 e	1 351 u	1 336 u
Azerbaijan	1 105 o	1 106 u	1 131 u	1 145 e	1 149 u	1 157 e	1 165 e	1 302 u	1 407 u	1 444 u
Georgia	3 160 u	3 113 u	3 220 u	3 300 u	3 323 u	3 354 u	3 379 u	3 450 u	3 414 u	3 515 u
Russian Fed	49 659 u	50 023 u	50 119 u	50 956 u	51 055 u	51 224 u	51 501 u	54 241 u	51 726 u	51 834 u
Türkiye	26 681 o	27 273 o	28 291 o	28 503 o	30 984 o	31 493 o	31 571 o	31 962 o	32 203 o	32 294 o
Europe	189 296	191 125	192 272	193 192	194 672	195 484	198 009	198 075	195 817	196 846
Albania	1 913 o	2 047 o	2 105 o	2 162 o	2 387 o	2 507 e	2 493 o	2 519 o	2 556 o	2 620 u
Andorra	46 o	46 o	46 o	46 o	46 u	46 u	46 e	46 u	46 e	46 u
Austria	14 116 o	14 150 o	14 516 o	14 597 o	14 635 e	14 747 o	14 923 o	14 952 o	15 186 o	15 759 o
Belarus	74 o	95 o	95 u	95 u	96 e	96 u	96 e	97 u	86 u	86 e
Belgium	109 o	107 e	108 o	104 o	106 o	111 o	123 o	122 o	124 o	107 o
Bosnia Herzg	1 760 o	1 791 o	1 816 o	1 819 o	1 829 o	1 837 o	1 838 u	1 842 o	1 878 o	1 879 o
Bulgaria	2 359 o	2 508 o	2 515 o	2 514 o	2 512 o	2 505 o	2 558 e	2 564 u	2 554 e	2 554 u
Croatia	2 192 o	2 193 o	2 200 o	2 200 o	2 200 o	2 201 o	2 206 o	2 190 o	2 190 o	2 190 e
Czechia	1 090 o	1 093 o	1 093 o	1 094 o	1 094 o	1 113 o	1 114 o	1 117 o	1 118 o	1 118 o
Denmark	9 o	7 o	7 o	7 e	7 o	7 o	7 o	7 o	7 e	7 u
Estonia	6 o	7 o	7 u	6 o	8 o	6 o	8 o	10 o	8 o	8 u
Faroe Islands	39 o	39 o	40 o	40 u	40 e	40 e	40 e	40 u	40 e	40 u
Finland	3 133 o	3 156 o	3 152 o	3 157 o	3 164 o	3 171 o	3 171 e	3 169 o	3 209 o	3 218 o
France	23 893 e	23 979 e	23 999 e	24 141 e	24 172 o	24 208 o	24 181 o	24 331 o	24 296 o	24 308 u
Germany	5 629 o	5 627 o	5 329 o	5 378 o	5 454 e	5 490 o	5 570 e	5 606 o	5 500 o	5 692 u
Greece	3 392 o	3 392 o	3 409 o	3 412 o	3 417 o	3 421 o	3 421 e	3 459 o	3 481 o	3 488 u
Hungary	57 o	57 o	57 o	58 o	58 o	60 o	60 e	60 o	61 o	61 u
Iceland	1 987 o	1 995 o	2 099 o	2 104 o	2 114 o	2 114 o	2 105 o	2 147 o	2 132 o	2 132 u
Ireland	237 o	237 o	237 o	237 o	237 o	237 o	237 e	237 u	237 e	237 u
Italy	18 316 o	18 486 o	18 558 u	18 601 o	18 755 o	18 809 o	18 933 o	18 942 o	19 324 o	19 346 u
Kosovo*	78 o	80 o	80 o	85 o	110 o	110 o	110 o	110 o	110 u	110 u
Latvia	1 564 o	1 564 o	1 565 o	1 587 o	1 586 o	1 587 o	1 588 o	1 588 o	1 588 o	1 588 u
Lithuania	117 o	117 o	117 o	117 o	117 o	117 o	117 e	117 o	117 o	117 u
Luxembourg	34 o	35 o	34 o	34 u	35 o	35 o	34 o	34 o	34 o	34 u
Moldova Rep	64 o	64 u	64 u	64 u	64 e	64 u	64 e	65 u	65 e	65 e
Montenegro	668 o	675 o	676 o	676 o	697 o	697 u	697 e	697 u	705 o	705 u
Netherlands	37 o	37 o	37 o	37 o	37 o	38 o	38 o	38 e	38 o	38 u
North Macedonia	661 o	688 o	693 o	698 o	706 o	706 o	719 o	720 o	720 o	720 u
Norway	31 817 o	31 912 o	32 530 o	32 797 o	33 732 o	34 075 o	34 269 e	34 291 u	34 549 o	34 648 u
Poland	972 o	967 o	968 o	974 o	977 o	975 o	984 e	987 u	988 o	989 u
Portugal	6 960 o	7 226 o	7 236 o	7 262 o	7 241 o	7 255 o	8 189 o	8 187 u	8 362 o	8 372 u
Romania	6 642 o	6 600 o	6 609 o	6 595 o	6 561 o	6 571 o	6 571 o	6 596 u	6 568 o	6 620 u
Serbia	2 416 o	2 424 o	2 429 o	2 460 o	2 468 u	2 471 e	2 493 e	2 511 u	2 511 e	2 514 u
Slovakia	1 608 o	1 607 o	1 612 o	1 611 o	1 613 o	1 615 e	1 616 o	1 615 o	1 613 o	1 613 u
Slovenia	1 113 o	1 167 o	1 163 o	1 171 o	1 172 o	1 172 e	1 166 o	1 171 o	1 173 o	1 141 o
Spain	16 749 o	16 748 o	16 748 o	16 782 o	16 785 o	16 801 o	16 806 o	16 809 o	16 809 e	16 789 u
Sweden	16 367 o	16 502 o	16 431 o	16 462 o	16 406 o	16 407 o	16 399 e	16 406 u	16 269 e	16 305 u
Switzerland	14 279 o	14 826 o	14 980 o	15 012 o	15 032 o	15 050 o	16 006 o	16 035 o	16 115 o	16 135 o
UK	2 133 e	2 170 u	2 177 o	2 180 e	2 185 u	2 190 u	2 191 e	2 159 e	2 199 u	2 199 u
Ukraine	4 658 o	4 704 o	4 734 e	4 816 o	4 819 o	4 823 u	4 823 u	4 488 u	1 250 u	1 250 u
European Union	126 702	127 568	127 708	128 137	128 347	128 658	130 018	130 309	130 856	131 698
Middle East	14 601	14 255	14 401	14 484	14 495	14 493	14 843	15 019	15 121	15 176
Iran IR	10 538 u	10 913 u	11 059 u	11 142 u	11 153 u	11 153 u	11 503 u	11 679 u	11 781 u	11 781 u
Iraq	2 274 u	1 557 u	1 557 u	1 557 u	1 557 u	1 557 u	1 557 u	1 557 u	1 557 u	1 557 u
Israel	7 o	7 o	7 o	7 o	7 o	7 o	7 o	7 o	7 o	7 o
Jordan	6 e	6 e	6 e	6 e	6 e	4 e	4 e	4 u	4 u	4 u
Lebanon	282 u	282 u	282 u	282 u	282 u	282 u	282 u	282 u	282 u	282 u
Syrian AR	1 494 o	1 490 o	1 490 o	1 490 u	1 490 u	1 490 u	1 490 u	1 490 u	1 490 e	1 545 o
N America	176 466	177 021	177 837	178 187	178 413	180 536	180 819	180 726	180 698	181 261
Canada	80 130 o	80 657 o	81 396 u	81 396 u	81 209 u	82 893 o	83 498 o	83 498 o	83 558 o	84 126 u
Greenland	91 u	91 u	91 u	91 u	91 u	91 u	91 u	91 u	91 e	91 u
Mexico	12 580 u	12 628 u	12 628 u	13 076 u	13 301 u	13 303 u	12 838 u	12 838 u	12 838 e	12 838 u
USA	83 665 o	83 644 o	83 722 o	83 624 o	83 811 o	84 249 o	84 392 o	84 299 o	84 210 o	84 206 o

Renewable hydropower

Hydroélectricité renouvelable

Hidroeléctrica renovable

CAP (MW)	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Oceania	13 468	13 474	13 726	13 738	13 779	13 780	13 803	13 869	13 891	13 899
Australia	7 461 o	7 461 o	7 713 o	7 713 o	7 713 u	7 713 o	7 713 u	7 713 u	7 713 u	7 713 u
Fiji	138 u	138 u	138 u	138 u	138 u	138 u	138 u	138 u	138 u	138 e
Fr Polynesia	47 o	48 o	48 o	49 e	49 u	49 u	49 e	49 u	49 u	49 o
Micronesia	1 u	1 u	1 u	1 u	1 u	1 u	1 u	1 u	1 u	1 u
New Caledon	78 o	78 o	78 o	78 u	81 u	81 u	81 u	81 u	81 o	81 u
New Zealand	5 496 o	5 496 o	5 496 o	5 504 o	5 541 o	5 542 o	5 559 o	5 559 o	5 581 o	5 580 o
Papua N Guin	241 u	241 u	241 u	241 u	241 u	241 u	244 u	309 u	309 u	318 o
Samoa	5 u	9 u	10 u	13 u	13 u	13 u	16 u	16 u	16 u	16 u
Solomon Is	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 e	0 e
Vanuatu	1 u	1 u	1 u	1 u	1 e	1 u	1 u	2 e	2 u	2 o
S America	172 716	173 916	175 119	176 400	177 164	177 457	179 845	180 003	178 987	179 644
Argentina	10 272 e	10 275 e	10 320 e	10 342 e	10 376 e	10 377 e	10 390 e	10 390 e	9 195 u	9 194 u
Bolivia	484 e	602 e	735 e	735 e	736 e	736 e	736 e	736 o	717 o	717 u
Brazil	106 584 e	107 549 e	107 748 e	109 095 e	109 276 e	109 409 e	109 756 e	109 917 e	109 977 e	110 269 e
Chile	6 672 o	6 657 o	6 628 o	6 342 u	6 820 o	6 798 o	7 504 u	7 412 u	7 328 u	7 502 u
Colombia	11 606 u	11 731 o	11 842 o	11 930 u	11 959 u	11 954 e	13 182 e	13 224 e	13 224 u	13 216 u
Ecuador	4 446 e	4 516 u	5 066 e	5 076 e	5 098 o	5 099 e	5 191 e	5 192 e	5 419 u	5 389 u
Fr Guiana	124 o	124 o	124 o	124 o	124 o	124 o	124 o	124 o	124 o	124 o
Guyana	2 u	2 u	2 u	2 o	2 u	2 u	2 u	2 u	3 u	5 o
Paraguay	8 800 o	8 800 o	8 800 o	8 824 o	8 824 u	8 824 u	8 824 u	8 824 u	8 824 u	8 824 u
Peru	5 179 o	5 113 e	5 230 o	5 387 e	5 406 e	5 503 e	5 504 e	5 549 u	5 544 o	5 773 u
South Georgia	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u
Suriname	180 e	180 e	180 u	180 u	180 u	180 u	180 u	180 u	180 u	180 u
Uruguay	1 538 o	1 538 o	1 538 o	1 538 o	1 538 o	1 538 o	1 538 o	1 538 o	1 538 o	1 538 o
Venezuela	16 829 u	16 829 u	16 906 u	16 826 u	16 826 u	16 914 u	16 914 u	16 914 u	16 914 u	16 914 u

Renewable hydropower

Hydroélectricité renouvelable

Hydroeléctrica renovable

PROD (GWh)	2016	2017	2018	2019	2020	2021	2022	2023	2024
World	4 046 264	4 097 011	4 214 787	4 264 383	4 376 942	4 299 960	4 347 323	4 274 887	4 472 387
Africa	122 692	129 757	138 707	145 042	150 060	157 501	162 292	162 749	167 918
Algeria	72 o	56 e	117 o	152 e	50 e	9 e	16 u	23 u	23 e
Angola	6 286 e	8 844 e	11 323 e	12 562 e	13 802 e	13 802 e	13 802 e	13 802 e	13 802 e
Benin	0 o	0 o	0 o	0 o	0 o	0 o	0 o	0 o	0 o
Burkina Faso	139 o	128 o	91 o	105 o	112 o	127 o	82 o	89 o	98 o
Burundi	246 e	171 e	204 e	222 e	267 e	242 e	278 e	368 e	494 o
Cameroon	4 359 e	4 753 e	5 033 e	5 026 e	5 233 e	5 233 e	5 233 e	5 233 e	5 233 e
Cent Afr Rep	131 e	141 e	141 e	141 e	141 e	141 e	141 e	141 e	141 e
Comoros	0 u	0 e							
Congo DR	8 828 e	9 406 e	10 517 e	11 497 e	12 564 e	13 424 e	13 303 e	13 424 e	13 716 e
Congo Rep	1 132 o	1 203 o	1 046 o	1 046 o	1 046 o	1 046 o	1 046 o	1 046 o	1 046 o
Cote d Ivoire	1 529 o	2 047 o	2 962 o	3 481 o	3 376 o	2 627 o	2 864 o	3 200 o	3 411 o
Egypt	13 545 o	12 850 o	12 726 o	13 121 o	15 038 e	14 646 u	15 458 o	15 056 o	15 810 e
Eq Guinea	471 u	438 u	443 u	477 o	489 o	470 o	471 o	348 o	446 o
Eswatini	154 e	124 e	189 e	225 e	231 e	259 e	297 e	395 e	372 e
Ethiopia	9 674 o	11 753 e	12 681 o	13 655 o	14 404 o	14 943 o	14 882 o	17 126 o	19 870 o
Gabon	822 e	915 e	982 e	960 e	912 e	912 e	912 e	912 e	912 e
Ghana	5 561 o	5 616 o	6 017 o	7 252 o	7 293 o	7 521 o	8 192 o	8 193 o	9 893 o
Guinea	1 084 o	1 212 o	1 191 o	1 289 o	1 493 o	2 645 o	2 947 o	3 345 o	3 787 o
Kenya	3 629 e	3 373 e	3 574 e	3 808 e	4 021 e	3 861 e	3 100 e	3 115 e	3 550 e
Lesotho	511 e	502 e	516 e	392 o	426 o	531 o	480 o	480 o	480 o
Liberia	25 e	128 e	128 e	128 e	128 e	248 e	253 e	349 e	333 e
Madagascar	917 e	815 e	1 000 e	920 e	850 e	800 e	855 e	1 018 e	986 e
Malawi	1 894 e	1 586 e	1 425 e	1 675 e	1 676 e	1 694 e	1 694 e	1 694 e	1 694 e
Mali	1 905 e	2 081 e	1 197 e	762 e	782 e	721 e	888 e	969 e	970 e
Mauritius	101 e	91 e	126 e	100 e	117 e	108 e	130 e	96 e	123 e
Morocco	1 256 o	1 185 o	1 693 o	1 263 o	868 o	818 o	350 o	353 o	456 o
Mozambique	15 615 e	14 067 e	13 910 e	14 829 e	15 714 e	15 477 e	16 184 e	16 361 e	16 327 e
Namibia	1 477 o	1 370 o	1 049 o	1 230 o	1 237 e	875 e	1 052 e	1 695 e	2 059 e
Nigeria	8 150 e	7 750 e	7 695 e	8 433 e	7 872 e	9 154 e	9 235 e	9 426 e	12 811 e
Reunion	465 u	422 o	601 o	418 o	423 o	358 o	634 o	394 o	419 o
Rwanda	329 e	307 e	334 e	399 e	520 e	555 e	514 e	498 e	526 e
Sao Tome Prn	6 o	5 o	5 o	6 o	6 o	6 o	6 o	6 o	6 o
Sierra Leone	219 e	228 e	228 e	228 e	228 e	228 e	228 e	228 e	228 e
South Africa	627 e	697 e	970 e	794 e	1 233 e	1 825 e	3 324 e	1 872 e	915 e
Sudan	8 051 o	9 347 o	9 657 o	10 210 o	11 008 o	10 061 o	10 061 u	10 061 u	10 061 e
Tanzania	2 442 e	2 430 e	2 314 e	2 561 e	3 229 e	3 163 e	2 645 e	2 693 e	2 858 e
Togo	204 o	204 o	100 o	125 o	75 o	86 o	18 o	48 o	21 o
Tunisia	45 o	17 o	17 o	66 o	46 o	28 o	15 o	9 o	16 o
Uganda	3 219 e	3 369 e	3 567 e	3 968 e	3 990 e	4 263 e	4 832 e	3 437 e	3 462 e
Zambia	11 086 o	12 514 o	13 765 o	12 404 o	12 879 o	16 147 o	17 130 o	17 144 o	10 794 o
Zimbabwe	6 485 e	7 611 e	9 169 e	9 113 e	6 279 e	8 447 e	7 739 e	8 101 e	9 766 e
Asia	1 640 218	1 686 403	1 730 253	1 793 087	1 872 720	1 865 357	1 907 066	1 807 936	1 958 830
Afghanistan	1 025 u	1 043 u	922 u	1 136 u	1 046 u	881 u	759 u	773 u	1 174 u
Bangladesh	1 021 u	1 051 u	915 u	812 u	777 e	734 u	711 u	756 u	942 u
Bhutan	7 953 u	7 728 u	6 959 u	8 876 u	11 370 u	10 822 u	10 771 u	10 762 o	11 670 o
Cambodia	2 568 u	2 711 u	4 737 u	4 025 u	3 860 o	5 044 o	5 898 o	4 840 o	7 228 o
China	1 162 589 o	1 165 117 u	1 198 890 u	1 272 540 u	1 322 010 o	1 300 600 o	1 303 900 o	1 232 150 u	1 362 000 o
China HK SAR	2 o	3 o	3 o	3 o	2 o	2 u	2 u	2 u	2 u
Chinese Taipei	6 562 u	5 447 u	4 482 u	5 545 u	3 019 u	3 475 u	5 837 o	3 963 o	4 208 o
India	125 227 u	126 417 u	131 708 u	144 612 u	159 745 u	156 619 u	160 564 u	161 463 u	143 315 u
Indonesia	18 728 u	18 683 u	21 637 u	21 161 u	24 325 u	24 697 u	27 295 u	24 590 u	27 290 o
Japan	79 484 e	83 795 e	80 969 o	79 993 o	78 807 o	78 850 o	77 021 o	75 210 o	73 739 o
Kazakhstan	11 621 o	11 210 o	10 395 o	9 994 o	9 660 e	9 208 u	9 142 u	8 809 u	11 285 o
Korea DPR	12 800 o	11 900 o	12 800 o	11 000 u	12 800 o	16 100 u	16 600 u	15 800 u	15 600 o
Korea Rep	2 859 o	2 824 o	3 374 o	2 791 o	3 879 o	3 057 o	3 545 o	3 718 o	4 303 o
Kyrgyzstan	11 498 o	14 204 o	14 318 o	13 859 o	13 979 e	12 957 o	11 929 u	12 031 u	12 936 o
Lao PDR	24 868 u	31 066 u	33 742 u	28 980 u	32 792 u	36 738 u	38 717 u	36 387 u	40 630 u
Malaysia	20 358 e	26 717 e	26 296 e	26 281 e	27 302 e	30 987 e	31 936 e	32 015 e	33 699 e
Mongolia	87 u	86 o	81 o	87 o	85 o	85 o	64 o	50 u	76 u
Myanmar	9 745 u	11 192 u	11 229 u	9 370 u	8 372 u	4 796 u	9 071 u	5 885 u	6 736 u
Nepal	3 825 u	4 423 u	4 745 u	5 521 u	6 182 u	7 913 u	10 168 u	11 422 u	13 122 u
Pakistan	33 440 e	30 419 e	30 636 e	35 987 e	39 238 e	37 533 e	36 218 e	36 218 e	47 670 e
Philippines	7 389 u	8 889 u	8 662 u	7 303 u	6 470 u	8 571 u	9 504 u	9 705 u	10 308 u
Sri Lanka	4 245 u	4 028 u	6 408 u	4 819 u	4 984 u	7 234 u	6 767 u	5 978 u	6 926 u
Tajikistan	16 803 o	17 312 o	18 573 o	19 348 o	19 348 u	19 348 u	19 879 u	20 603 e	20 879 u
Thailand	3 137 u	4 322 u	7 268 u	5 930 u	4 169 u	4 169 u	6 340 u	6 247 u	6 094 u
Timor Leste	2 u	2 e	2 u	2 u					
Turkmenistan	3 u	3 u	3 o	3 u	3 u	3 u	3 u	3 u	3 u
Uzbekistan	8 100 o	8 100 o	5 897 o	6 452 o	5 000 o	5 000 o	6 500 u	6 830 o	8 160 o
Viet Nam	64 280 u	87 712 u	84 602 u	66 655 u	73 495 o	79 932 u	97 927 u	81 727 u	88 836 u

Renewable hydropower

Hydroélectricité renouvelable

Hydroeléctrica renovable

PROD (GWh)	2016	2017	2018	2019	2020	2021	2022	2023	2024
C America + Carib	24 553	29 717	27 188	23 130	28 786	31 795	33 543	27 038	30 372
Belize	261 e	282 e	250 e	75 e	242 e	158 e	239 e	177 e	177 e
Costa Rica	8 028 o	8 679 o	8 345 o	7 828 o	8 296 o	9 287 o	9 450 o	8 329 o	8 275 o
Cuba	64 o	83 o	146 o	131 u	119 e	127 u	127 e	113 e	98 u
Dominica	36 u	27 o	24 o	20 e	19 e	20 o	23 e	20 o	25 o
Dominican Rep	1 519 o	2 196 o	1 780 o	1 060 e	1 293 e	1 501 e	1 465 e	1 165 e	1 453 u
El Salvador	1 344 e	1 705 e	1 632 e	1 527 e	2 072 e	1 821 e	2 239 e	1 490 e	2 122 e
Guadeloupe	34 u	38 o	40 o	44 e	25 e	11 e	12 e	12 e	15 o
Guatemala	3 951 o	5 765 o	5 191 o	4 381 o	5 817 o	5 960 o	6 942 o	5 572 o	5 334 o
Haiti	71 e	127 o	197 o	200 o	200 o	200 u	200 e	200 e	214 o
Honduras	2 241 e	2 970 e	3 239 e	2 421 e	2 697 e	3 760 e	3 878 e	3 210 e	3 841 e
Jamaica	115 o	150 o	176 o	153 o	134 o	138 o	119 e	110 o	122 o
Martinique				0 e	0 e				
Nicaragua	427 o	468 o	411 o	226 e	574 e	598 e	650 e	470 e	725 o
Panama	6 375 e	7 155 e	5 696 e	5 000 e	7 226 e	8 154 e	8 134 e	6 109 e	7 899 e
Puerto Rico	71 e	51 e	38 e	41 e	51 e	40 e	45 e	38 e	48 o
St Vincent Gren	16 o	20 o	24 o	22 o	22 o	19 o	19 u	23 o	23 u
Eurasia	265 482	256 457	264 042	296 408	301 777	283 772	282 016	280 895	311 015
Armenia	2 351 o	2 269 u	2 318 u	2 371 u	1 778 u	2 202 u	2 846 u	1 646 o	2 059 o
Azerbaijan	1 959 o	1 746 o	1 768 o	1 565 o	1 070 e	1 277 o	1 596 u	1 763 e	3 008 o
Georgia	9 329 o	9 210 o	9 949 o	8 932 o	8 248 u	10 182 o	10 771 u	10 863 e	11 344 o
Russian Fed	184 612 u	185 013 u	191 142 u	194 717 u	212 586 u	214 184 u	200 000 u	202 620 u	219 750 u
Türkiye	67 231 o	58 218 o	58 865 o	88 823 o	78 094 o	55 927 o	66 802 o	64 002 o	74 853 o
Europe	578 294	520 361	578 140	534 134	575 284	586 495	484 672	565 275	606 922
Albania	7 782 o	4 525 o	8 552 o	5 184 o	5 281 o	8 922 o	6 842 o	8 709 o	7 471 o
Andorra	84 o	85 o	114 o	137 u	121 e	79 u	67 e	70 e	88 o
Austria	39 971 o	38 294 o	37 638 o	40 826 o	41 998 o	38 751 o	34 625 o	40 673 o	45 707 o
Belarus	142 o	405 o	324 o	351 o	399 o	370 o	372 u	365 e	330 o
Belgium	370 o	270 o	292 o	301 o	267 o	418 o	271 o	402 o	546 o
Bosnia Herzg	5 641 o	3 790 o	6 418 o	6 101 o	4 580 o	6 690 o	4 712 o	6 750 o	5 086 o
Bulgaria	3 880 o	2 828 o	5 147 o	2 929 o	2 820 o	4 819 o	3 803 o	3 080 o	2 787 o
Croatia	6 846 o	5 307 o	7 701 o	5 826 o	5 662 o	7 128 o	5 460 o	8 161 o	6 727 o
Czechia	2 000 o	1 869 o	1 629 o	2 008 o	2 144 o	2 409 o	2 093 o	2 363 o	2 663 o
Denmark	19 o	18 o	15 o	17 o	17 o	16 o	15 o	20 o	23 o
Estonia	35 o	26 u	15 o	19 o	30 o	23 o	23 o	24 o	30 o
Faroe Islands	106 o	111 o	108 o	104 o	109 e	100 e	131 e	100 e	111 o
Finland	15 799 o	14 771 o	13 301 o	12 420 o	15 883 o	15 791 o	13 492 o	15 200 o	14 299 o
France	60 839 o	50 001 o	65 111 o	56 914 o	62 524 o	59 537 o	45 482 o	55 895 o	71 116 o
Germany	20 546 o	20 150 o	17 693 o	19 731 o	18 721 o	19 657 o	17 624 o	21 244 o	23 825 o
Greece	5 543 o	3 963 o	5 743 o	4 000 o	3 344 o	5 903 o	3 855 o	3 815 o	3 582 o
Hungary	259 o	220 o	222 o	219 o	244 o	212 o	178 o	222 o	231 o
Iceland	13 470 o	14 059 o	13 814 o	13 461 o	13 157 o	13 804 o	14 196 u	14 226 o	13 604 o
Ireland	681 o	692 o	694 o	887 o	933 o	749 o	701 o	943 o	766 o
Italy	42 432 o	36 199 o	48 786 o	46 319 o	47 552 o	45 388 o	28 398 o	40 517 o	53 131 o
Kosovo*	245 o	179 o	273 o	213 o	263 o	297 o	260 o	393 o	213 o
Latvia	2 530 o	4 381 o	2 432 o	2 108 o	2 603 o	2 708 o	2 750 o	3 794 o	3 209 o
Lithuania	454 o	602 o	431 o	345 o	301 o	384 o	464 o	450 o	437 o
Luxembourg	115 o	86 o	93 o	107 o	92 o	107 o	64 o	90 o	105 o
Moldova Rep	230 o	285 o	272 u	298 u	273 u	313 u	274 u	237 u	46 o
Montenegro	1 843 o	1 024 o	2 113 o	1 634 o	1 448 o	2 010 o	1 444 o	2 221 o	1 765 o
Netherlands	100 o	61 o	72 o	74 o	46 o	88 o	50 o	69 o	85 o
North Macedonia	1 897 o	1 110 o	1 791 o	1 164 o	1 277 o	1 452 o	1 345 o	1 623 o	1 366 o
Norway	142 807 o	142 366 o	138 981 o	125 289 o	141 805 o	143 965 o	128 240 o	136 714 o	139 550 o
Poland	2 139 o	2 560 o	1 970 o	1 958 o	2 118 o	2 339 o	1 968 o	2 410 o	2 115 o
Portugal	15 723 o	5 897 o	12 393 o	8 818 o	12 083 o	11 908 o	6 536 o	12 039 o	14 893 o
Romania	18 028 o	14 494 o	17 664 o	15 581 o	15 381 o	17 412 o	13 977 o	18 137 o	14 193 o
Serbia	10 792 o	9 153 o	10 640 o	9 457 o	8 982 o	11 211 o	8 602 o	12 376 o	10 104 o
Slovakia	4 359 o	4 324 o	3 590 o	4 356 o	4 517 o	4 258 o	3 678 o	4 686 o	4 826 o
Slovenia	4 503 o	3 868 o	4 704 o	4 479 o	4 934 o	4 713 o	3 149 o	5 021 o	5 336 o
Spain	36 395 o	18 322 o	34 334 o	24 646 o	30 507 o	29 626 o	17 590 o	24 996 o	34 415 o
Sweden	62 018 o	65 143 o	62 210 o	65 371 o	72 389 o	73 885 o	69 871 o	66 187 o	64 615 o
Switzerland	34 627 o	34 095 o	34 987 o	38 043 o	37 873 o	36 968 o	29 903 o	37 391 o	45 419 u
UK	5 370 o	5 882 u	5 443 o	5 933 o	6 878 o	5 418 o	5 068 u	5 464 u	5 796 u
Ukraine	7 671 o	8 946 o	10 428 o	6 508 o	5 729 o	6 667 u	7 100 u	8 198 o	6 313 u
European Union	345 587	294 346	343 881	320 258	347 109	348 229	276 117	330 438	369 659
Middle East	21 083	18 259	18 791	38 871	28 827	16 725	20 766	19 037	19 533
Iran IR	16 419 o	15 051 o	15 765 o	31 003 e	22 007 o	12 267 o	16 706 o	16 941 o	16 941 e
Iraq	3 374 u	2 178 u	1 820 o	4 966 o	4 164 u	3 348 u	2 653 u	1 385 u	1 385 u
Jordan	42 o	38 o	23 o	18 o	18 e	18 o	19 o	22 e	21 u
Lebanon	382 o	415 o	348 o	965 o	1 025 o	670 u	700 u	500 u	500 u
Syrian AR	867 o	577 o	835 o	1 919 o	1 613 o	422 o	688 o	188 o	686 o
N America	685 496	729 857	714 301	695 755	701 136	671 333	690 638	628 773	616 172
Canada	385 394 o	394 548 o	385 856 u	381 732 u	386 506 o	382 391 o	397 686 o	360 739 o	346 868 o
Greenland	401 u	388 e	418 e	409 e	430 e	433 e	467 e	480 e	484 u
Mexico	30 031 u	32 559 u	32 526 u	23 815 u	27 060 u	35 031 u	35 883 u	20 796 u	24 012 u
USA	269 670 e	302 362 e	295 501 o	289 799 o	287 140 o	253 478 o	256 602 o	246 758 o	244 808 o

Renewable hydropower

Hydroélectricité renouvelable

Hidroeléctrica renovable

PROD (GWh)	2016	2017	2018	2019	2020	2021	2022	2023	2024
Oceania	42 753	43 042	44 058	43 324	41 172	41 162	44 847	44 314	39 883
Australia	15 021 o	16 037 o	15 804 o	15 602 o	14 763 o	14 760 o	16 297 o	15 770 o	14 067 o
Fiji	496 u	492 u	567 u	560 u	559 u	548 e	599 e	540 e	631 u
Fr Polynesia	183 o	175 o	164 o	159 o	159 o	142 o	194 o	150 o	189 o
Micronesia	1 u	1 u	1 u	1 u	1 u	1 u	1 u	1 e	1 u
New Caledon	232 o	361 o	317 o	285 u	305 e	425 e	539 e	421 e	396 o
New Zealand	25 967 o	25 180 o	26 303 o	25 652 o	24 318 o	24 219 o	26 332 o	26 558 o	23 725 o
Papua N Guin	817 u	753 u	847 u	1 011 u	1 011 u	1 011 u	847 e	819 u	819 u
Samoa	30 u	35 u	46 u	45 e	47 e	47 e	29 e	46 o	45 o
Solomon Is	1 e	1 e	1 u	1 u	1 u	1 u	1 u	1 u	1 u
Vanuatu	5 u	7 u	8 u	8 u	9 e	8 e	9 e	9 e	9 u
S America	665 691	683 157	699 307	694 632	677 180	645 819	721 482	738 870	721 742
Argentina	40 438 u	43 668 u	43 919 u	38 766 u	32 146 u	26 795 u	32 001 u	41 779 u	36 870 u
Bolivia	1 720 o	2 234 o	2 612 o	3 251 o	2 942 e	3 237 o	2 852 o	2 323 o	2 859 u
Brazil	380 911 u	370 907 u	388 971 u	397 877 u	396 382 u	362 818 u	427 114 u	425 996 u	421 799 u
Chile	23 435 o	21 359 o	23 427 o	22 507 o	21 932 o	19 516 o	20 873 e	23 713 e	27 083 e
Colombia	46 919 u	57 483 u	56 823 u	54 655 u	50 040 u	60 639 u	64 481 u	59 962 u	54 621 u
Ecuador	15 834 o	20 089 o	20 678 o	24 641 e	24 324 o	25 563 o	24 635 o	25 349 e	22 614 o
Fr Guiana	435 u	564 u	536 u	409 u	433 u	582 u	591 u	520 u	289 u
Guyana	6 u	6 u	6 u	6 u	6 u	6 u	6 u	6 u	8 u
Paraguay	63 770 o	59 684 o	59 211 u	49 445 u	46 371 o	40 574 u	43 879 u	52 812 u	42 437 u
Peru	20 876 e	28 921 e	30 548 e	31 323 e	30 475 e	31 890 e	29 708 e	29 088 u	32 033 u
South Georgia	1 o	0 o	1 o	1 o	1 u	1 u	1 u	1 u	1 u
Suriname	783 u	926 u	1 000 u	952 u	885 u	1 073 u	1 167 u	1 151 u	1 151 e
Uruguay	7 601 u	7 277 e	6 290 e	8 007 u	4 051 e	5 277 u	5 659 e	3 519 u	7 326 u
Venezuela	62 962 u	70 039 u	65 285 u	62 793 u	67 194 u	67 849 u	68 515 u	72 651 u	72 651 u

Pumped hydro Hydroaccumulation Hidroacumulación

CAP (MW)	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
World	116 995	119 843	120 366	120 613	122 319	127 083	136 513	141 772	149 583	159 879
Africa	2 863	3 196	3 196	3 196	3 196	3 196	3 196	3 196	3 546	3 546
Morocco	464 o	464 o	464 o	464 o	464 o	464 o	464 o	464 o	814 u	814 o
South Africa	2 399 u	2 732 u	2 732 u	2 732 u	2 732 u	2 732 u	2 732 o	2 732 u	2 732 u	2 732 u
Asia	61 971	64 671	65 271	65 571	66 771	71 671	81 071	86 181	93 931	103 611
China	26 690 o	29 390 u	29 990 o	30 290 o	31 490 o	36 390 o	45 790 o	50 940 o	58 690 o	65 940 o
Chinese Taipei	2 602 o	2 602 o	2 602 o	2 602 o	2 602 o	2 602 o	2 602 o	2 602 o	2 602 o	2 602 o
India	4 786 o	4 786 o	4 786 u	4 786 o	4 786 u	4 786 u	4 786 u	4 746 u	4 746 u	7 176 o
Japan	21 897 o	21 897 o	21 897 o	21 897 o	21 897 o	21 897 o	21 897 o	21 897 o	21 897 o	21 897 o
Korea Rep	4 700 o	4 700 o	4 700 o	4 700 o	4 700 o	4 700 o	4 700 o	4 700 o	4 700 o	4 700 o
Mongolia	0 o	0 o	0 o	0 u	0 e	0 o	0 e	0 u	0 o	0 o
Philippines	736 o	736 o	736 o	736 o	736 u	736 u	736 u	736 u	736 u	736 o
Thailand	560 u	560 u	560 o	560 o	560 o	560 u	560 u	560 u	560 u	560 u
C America + Carib			6	6	6	6	6	6	6	6
Honduras			6 e	6 e	6 e	6 e	6 e	6 e	6 e	6 e
Eurasia	1 216	1 216	1 216	1 216	1 216	1 216	1 216	1 216	1 216	1 216
Russian Fed	1 216 o	1 216 o	1 216 e	1 216 o	1 216 u	1 216 u	1 216 u	1 216 u	1 216 u	1 216 u
Europe	28 680	28 464	28 360	28 360	28 365	28 689	28 676	28 710	28 412	28 433
Belgium	1 307 e	1 307 e	1 307 e	1 307 e	1 307 e	1 307 o	1 307 e	1 307 o	1 307 o	1 305 o
Bosnia Herzg	420 o	420 o	420 u	420 o	420 u	420 u	420 e	420 o	420 e	420 u
Bulgaria	864 o	864 o	864 o	864 o	864 o	864 o	864 e	864 u	864 e	864 u
Czechia	1 172 o	1 172 o	1 172 o	1 172 o	1 172 u	1 172 o	1 172 e	1 172 u	1 172 e	1 172 u
France	1 728 o	1 728 o	1 728 u	1 728 o	1 728 o	1 728 o	1 728 e	1 728 o	1 728 o	1 728 u
Germany	5 578 o	5 493 o	5 355 o	5 355 o	5 354 o	5 354 o	5 353 o	5 345 o	5 321 o	5 339 o
Ireland	292 o	292 o	292 o	292 o	292 o	292 o	292 e	292 u	292 e	292 u
Italy	3 982 o	3 940 o	3 940 u	3 940 o	3 940 o	3 940 o	3 928 o	3 970 o	3 970 e	3 970 u
Lithuania	760 o	760 o	760 o	760 o	760 o	760 o	760 e	760 e	760 e	760 u
Luxembourg	1 296 o	1 296 u	1 296 u	1 296 u	1 296 o	1 296 o	1 296 e	1 296 o	1 296 o	1 296 u
Poland	1 413 o	1 423 o	1 423 o	1 423 o	1 423 o	1 423 o	1 423 e	1 423 u	1 288 o	1 288 u
Romania	92 o	92 o	92 o	92 o	92 o	92 o	92 e	92 u	92 e	92 u
Serbia	614 o	614 o	614 o	614 u	614 u	614 u	614 e	614 u	614 e	614 u
Slovakia	916 o	916 u	916 o	916 u	916 u	916 u	916 e	916 u	916 e	916 u
Slovenia	180 o	180 u	180 o	180 u	180 o	180 u	180 e	180 u	180 e	180 u
Spain	3 331 o	3 331 o	3 331 o	3 331 o	3 331 o	3 331 o	3 331 e	3 331 e	3 331 e	3 331 u
Sweden	99 o									
Switzerland	527 o	527 u	562 o	562 o	562 u	562 u	562 e	562 u	562 e	568 o
UK	2 600 o	2 600 o	2 600 o	2 600 o	2 600 u	2 600 u	2 600 e	2 600 e	2 600 o	2 600 u
Ukraine	1 509 o	1 509 o	1 509 u	1 509 u	1 515 o	1 839 o	1 839 u	1 839 u	1 700 u	1 700 u
European Union	23 010	22 794	22 655	22 655	22 654	22 654	22 641	22 675	22 516	22 532
Middle East	1 280	1 280	1 280	1 280	1 580	1 580	1 580	1 580	1 580	2 174
Iran IR	1 040 o	1 040 o	1 040 o	1 040 u	1 040 u	1 040 e	1 040 u	1 040 u	1 040 u	1 040 u
Iraq	240 u	240 u	240 u	240 u	240 u	240 u	240 u	240 u	240 u	240 u
Israel					300 u	300 u	300 u	300 u	300 e	644 u
United Arab Em										250 o
N America	19 201	19 233	19 253	19 199	19 401	18 941	18 985	19 099	19 108	19 108
Canada	174 o	174 u	174 u	174 u	174 u	174 u	174 u	174 u	174 u	174 u
USA	19 027 o	19 059 o	19 079 o	19 025 o	19 227 o	18 767 o	18 811 o	18 925 o	18 934 o	18 934 o
Oceania	810	810	810	810	810	810	810	810	810	810
Australia	810 o	810 o	810 o	810 o	810 o	810 o	810 o	810 o	810 o	810 u
S America	974	974	974	974	974	974	974	974	974	974
Argentina	974 o	974 o	974 o	974 o	974 o	974 o	974 o	974 e	974 u	974 u

Pumped hydro Hydroaccumulation Hidroacumulación

PROD (GWh)	2016	2017	2018	2019	2020	2021	2022	2023	2024
World	114 411	121 023	117 468	114 165	120 187	124 644	142 109	147 471	160 674
Africa	3 607	4 563	4 867	5 334	5 284	5 150	5 001	4 473	4 813
Morocco	407 o	380 o	304 o	391 o	422 o	394 o	329 o	163 o	230 o
South Africa	3 200 e	4 183 e	4 562 e	4 943 e	4 861 e	4 756 e	4 672 o	4 310 e	4 583 e
Asia	50 227	53 772	53 745	52 411	54 556	61 485	70 248	76 563	86 298
China	30 781 o	32 753 o	32 900 o	31 900 u	33 200 u	38 400 u	48 300 u	53 700 u	61 900 o
Chinese Taipei	3 294 u	3 334 u	3 371 u	3 208 u	3 159 u	3 184 u	3 062 u	3 051 u	3 075 o
India	4 949 u	4 949 u	4 949 o	4 949 u	4 949 u	4 949 u	4 949 u	4 949 u	4 949 u
Japan	6 181 o	7 308 o	7 379 o	7 660 o	8 741 o	10 033 o	8 986 o	9 843 o	10 461 o
Korea Rep	3 787 o	4 193 o	3 911 o	3 458 o	3 271 o	3 683 o	3 715 o	3 784 o	4 677 o
Philippines	722 e	722 u	722 u	722 u	722 u	722 u	722 u	722 u	722 u
Thailand	513 u	513 u	513 u	513 u	513 u	513 u	513 u	513 u	513 u
C America + Carib			20	9	10	17	16	7	5
Honduras			20 e	9 e	10 e	17 e	16 e	7 e	5 e
Eurasia	2 028	2 118	1 885	1 793	1 802	1 816	1 870	1 870	1 576
Russian Fed	2 028 o	2 118 o	1 885 o	1 793 o	1 802 o	1 816 u	1 870 u	1 870 e	1 576 u
Europe	35 160	37 058	34 837	32 961	36 378	34 473	40 874	40 607	43 014
Austria	3 037 o	3 882 o	3 581 o	3 378 o	3 346 o	3 788 o	4 516 o	3 850 o	3 649 o
Belgium	1 119 o	1 127 o	1 015 o	879 o	1 048 o	932 o	1 375 o	1 249 o	1 067 o
Bosnia Herzg	46 o	197 o	101 o	71 o	83 o	106 o	27 o	11 o	10 o
Bulgaria	688 o	665 o	276 o	453 o	500 o	248 o	30 o	50 o	117 o
Croatia	206 o	200 o	84 o	107 o	148 o	101 o	114 o	88 o	151 o
Czechia	1 202 o	1 170 o	1 051 o	1 167 o	1 293 o	1 211 o	990 o	1 064 o	922 o
France	4 846 o	5 134 o	5 361 o	4 659 o	4 501 o	4 331 o	5 528 o	4 194 o	5 656 o
Germany	5 588 o	6 005 o	6 170 o	5 940 o	6 554 o	5 315 o	5 951 o	5 443 o	6 350 o
Greece	22 o	77 o	16 o	51 o	97 o	58 o	145 o	229 o	486 o
Ireland	292 o	203 o	238 o	245 o	292 o	286 o	247 o	295 o	333 o
Italy	1 825 o	1 826 o	1 716 o	1 835 o	1 943 o	2 090 o	1 893 o	1 551 o	1 626 o
Lithuania	590 o	579 o	529 o	602 o	780 o	710 o	556 o	539 o	574 o
Luxembourg	1 413 o	1 336 o	1 244 o	842 o	1 002 o	978 o	1 059 o	1 147 o	1 236 o
Norway	610 o	746 o	733 o	740 o	666 o	403 o	1 127 o	1 261 o	1 105 o
Poland	482 o	474 o	417 o	706 o	819 o	762 o	1 050 o	1 325 o	1 009 o
Portugal	1 186 o	1 735 o	1 235 o	1 425 o	1 550 o	1 547 o	2 303 o	2 829 o	3 702 o
Romania	508 o	359 o	433 o	425 o	320 o	333 o	383 o	512 o	319 o
Serbia	728 o	599 o	754 o	741 o	767 o	774 o	673 o	705 o	408 o
Slovakia	247 o	299 o	289 o	215 o	282 o	294 o	285 o	342 o	491 o
Slovenia	279 o	273 o	189 o	203 o	291 o	285 o	252 o	301 o	283 o
Spain	3 470 o	2 748 o	2 469 o	2 228 o	3 491 o	3 221 o	4 512 o	6 109 o	6 407 o
Sweden	119 o	25 o	40 o	22 o	51 o	41 o	96 o	53 o	48 o
Switzerland	2 066 o	2 941 o	2 819 o	2 922 o	3 153 o	2 931 o	3 936 o	3 801 o	3 406 u
UK	2 959 o	2 872 o	2 498 o	1 756 o	1 567 o	1 893 o	1 991 o	1 823 o	2 060 u
Ukraine	1 633 o	1 586 o	1 579 o	1 347 o	1 835 o	1 835 u	1 835 u	1 835 u	1 602 u
European Union	27 118	28 117	26 353	25 383	28 306	26 531	31 285	31 171	34 424
Middle East	0	0						2	2
Iran IR	0 e	0 e							
Iraq	0 e	0 u							
Israel								2 e	2 o
N America	22 554	22 863	21 614	20 883	21 184	20 729	22 577	22 243	23 262
Canada	111 o	111 o	111 o	111 o	111 o	111 u	111 u	111 o	111 o
USA	22 443 o	22 752 o	21 503 o	20 772 o	21 073 o	20 618 o	22 466 o	22 132 o	23 151 o
Oceania	297	248	217	365	386	439	714	896	893
Australia	297 o	248 o	217 o	365 o	386 o	439 o	714 o	896 o	893 o
S America	538	401	282	409	588	536	810	810	810
Argentina	538 o	401 o	282 o	409 o	588 o	536 u	810 u	810 e	810 e

Marine energy

Énergie marine

Energía marina

CAP (MW)	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
World	524	527	527	525	491	491	492	494	490	490
Africa								2	2	2
Sao Tome Prn								2 u	2 u	2 u
Asia	260	260	260	260	261	261	261	261	260	260
China	4 o	4 o	4 o	4 u	5 u	5 u	5 u	5 u	5 u	5 u
Korea DPR	1 u	1 u	1 u	1 u	1 u	1 u	1 u	1 u	1 u	1 u
Korea Rep	255 o	255 o	255 o	256 o	256 o	256 o	256 o	256 o	255 o	255 o
Singapore	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u
Eurasia	1	1	1	1	1	1	1	1	0	0
Russian Fed	1 u	1 u	1 u	1 u	1 u	1 u	1 u	1 u	0 u	0 u
Europe	242	245	246	244	229	228	229	229	227	227
Faroe Islands					0 o	0 u	0 e	0 u	0 e	0 u
France	220 o	219 o	218 o	214 o	212 o	211 o	212 o	212 o	210 o	210 u
Italy	0 e	0 e	0 e	0 e	0 u	0 u	0 u	0 u	0 u	0 u
Netherlands	2 u	2 u	2 u	2 u	2 u	2 u	2 e	2 u	2 e	2 u
Norway	0 u	0 u	0 u	0 u	0 u	0 u	0 e	0 u	0 e	0 u
Portugal	1 o	0 o	0 o							
Spain	5 o	5 o	5 o	5 o	5 o	5 o	5 e	5 u	5 e	5 u
Sweden	0 u	0 u	0 u							
UK	13 e	18 o	20 e	22 e	10 o	10 o	10 o	10 o	10 o	10 u
European Union	228	227	226	221	219	218	219	219	217	217
Middle East								0	0	0
Israel								0 e	0 e	0 u
N America	20	20	20	20	1	1	1	1	1	1
Canada	20 o	20 o	20 u	20 u	1 u	1 u	1 u	1 u	1 u	1 u
USA	0 u	0 o	0 o							
Oceania	1	1		0	0	0	0	0	0	0
Australia	1 o	1 u								
New Zealand				0 o	0 o	0 u	0 u	0 o	0 o	0 o
S America	0	0	0	0	0	0	0	0	0	0
Brazil	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u

Marine energy

Énergie marine

Energía marina

PROD (GWh)	2016	2017	2018	2019	2020	2021	2022	2023	2024
World	1 044	1 049	1 022	997	986	972	958	921	810
Asia	503	496	492	482	464	462	431	445	327
China	7 o	7 o	7 o	7 u	7 u	7 u	7 u	7 u	7 e
Korea DPR	1 u	1 u	1 u	1 u	1 u	1 u	1 u	1 u	1 e
Korea Rep	496 o	489 o	485 o	475 o	457 o	455 o	424 o	438 o	320 o
Singapore	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u
Eurasia	0	0	0	0	0	0	0		
Russian Fed	0 u	0 u	0 o	0 o	0 o	0 u	0 u		
Europe	521	546	510	513	520	509	525	474	481
Faroe Islands	0 u					0 e	0 e	0 e	0 o
France	501 o	522 o	480 o	479 o	482 o	484 o	490 o	449 o	459 o
Italy	0 o	0 o	0 o	0 o	0 o	0 u	0 o	0 o	0 u
Norway	0 u	0 o	0 o	0 o	0 o	0 u	0 o	0 o	0 u
Portugal	0 o	0 o							
Spain	20 u	20 u	20 u	20 o	27 o	19 o	23 o	12 o	9 o
Sweden	0 u	0 o	0 o						
UK		4 u	9 u	14 u	11 u	5 u	11 u	13 u	13 u
European Union	521	542	500	499	509	503	514	461	468
N America	19	6	20	1	1	1	1	1	1
Canada	19 o	6 o	20 o	1 o	1 u	1 u	1 u	1 u	1 u
USA	0 u	0 o	0 o	0 u	0 u	0 u			
Oceania	0	0	0	0	0				
Australia	0 o	0 o	0 o	0 o	0 o				
S America	0	0	0	0	0	0	0		
Brazil	0 u	0 u	0 u	0 u	0 u	0 u	0 e		

Wind energy

Énergie éolienne

Energía eólica

CAP (MW)	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
World	467 316	514 972	563 516	623 076	733 271	824 190	903 011	1 018 318	1 132 587	1 291 015
Africa	3 831	4 579	5 472	5 529	6 515	6 910	7 746	8 866	9 586	11 469
Algeria	10	10	10	10	10	10	10	10	10	10
Cabo Verde	27	27	27	27	27	27	27	27	27	40
Chad	1	1	1	1	1	1	1	1	1	1
Djibouti						20	20	80	80	80
Egypt	755	755	1 130	1 132	1 380	1 640	1 643	1 890	2 199	3 028
Eritrea	1	1	1	1	1	1	1	1	1	1
Ethiopia	324	324	324	324	324	324	404	324	404	504
Gambia	1	1	1	1	1	1	1	1	1	1
Ghana	0	0	0	0	0	0	0	0	0	0
Kenya	26	26	336	336	336	436	436	436	436	436
Madagascar	0	0	0	0	0	0	0	0	0	0
Mauritania	34	34	34	34	34	34	34	137	137	137
Mauritius	11	11	11	11	11	11	11	11	11	11
Morocco	902	1 022	1 225	1 225	1 435	1 471	1 558	2 076	2 395	2 452
Namibia	0	6	6	6	6	6	6	6	6	6
Reunion	17	17	17	17	17	17	15	9	20	20
Senegal				55	159	159	159	159	159	159
Seychelles	6	6	6	6	6	6	6	6	6	6
Somalia	3	4	4	4	4	4	4	4	4	4
South Africa	1 473	2 094	2 094	2 094	2 516	2 495	3 163	3 442	3 442	4 326
Tanzania					2	2	2	2	2	2
Tunisia	240	240	245	245	245	245	245	245	245	245
Asia	184 112	204 945	228 977	257 669	331 942	384 803	426 482	508 540	594 246	723 855
Afghanistan	0	0	0	0	0	0	0	0	0	0
Bangladesh	3	3	3	3	3	3	3	3	63	63
Bhutan	1	1	1	1	1	1	1	1	1	1
Cambodia	0	0	0	0	0	0	0	0	0	0
China	148 517	164 374	184 665	209 582	281 993	328 973	365 964	441 895	521 266	640 626
China HK SAR		1	1	1	1	1	1	1	1	1
Chinese Taipei	682	692	713	845	937	1 094	1 581	2 677	3 905	4 517
India	28 700	32 848	35 288	37 505	38 559	40 067	41 930	44 736	48 163	54 511
Indonesia	1	1	144	154	154	154	154	152	152	152
Japan	3 205	3 483	3 498	3 951	4 119	4 262	4 483	5 369	5 869	6 249
Kazakhstan	98	112	121	284	486	684	1 108	1 395	1 520	1 909
Korea DPR	1	1	1	1	2	2	2	2	2	2
Korea Rep	1 035	1 143	1 303	1 494	1 645	1 709	1 946	2 165	2 362	2 451
Lao PDR										1 150
Maldives	1	1	1	1	1	1	1	1	1	1
Mongolia	51	101	156	156	156	156	156	155	156	155
Myanmar	0	0	0	0	0	0	0	0	0	0
Nepal	0	0	0	0	0	0	0	0	0	0
Pakistan	591	789	1 186	1 236	1 236	1 335	1 845	1 845	1 845	1 845
Philippines	427	427	427	443	443	443	443	443	443	518
Singapore		0	0	0	0	0	0	0	0	0
Sri Lanka	131	131	128	128	179	252	252	267	267	267
Thailand	507	628	1 103	1 507	1 507	1 545	1 545	1 544	1 544	1 544
Uzbekistan		1	1	1	1	1	1	1	501	1 652
Viet Nam	160	205	237	375	518	4 118	5 065	5 888	6 185	6 239
C America + Carib	1 485	1 611	1 737	1 956	1 970	1 993	2 111	2 128	2 191	2 268
Aruba	30	30	30	30	30	30	30	30	30	20
Bahamas	0	0	0	0	0	0	0	0	0	0
Barbados	0	0	0	0	0	0	1	1	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	1	1
Costa Rica	319	378	408	411	394	390	390	408	402	437
Cuba	16	16	16	16	16	16	16	16	16	16
Curacao	30	47	47	47	47	47	47	47	70	70
Dominica	0	0	0	0	0	0	0	0	0	0
Dominican Rep	135	135	183	370	370	370	417	417	433	482
El Salvador				36	36	54	54	54	54	54
Grenada	0	0	0	0	0	0	0	0	0	0
Guadeloupe	27	27	43	48	42	52	56	56	57	57
Guatemala	76	76	107	107	107	107	107	107	107	107
Haiti			0	0	0	0	0	0	0	0
Honduras	179	229	229	239	239	239	239	239	239	242
Jamaica	102	102	102	102	102	102	102	102	102	102
Martinique	1	1	1	14	15	14	14	14	14	14
Nicaragua	186	186	186	186	186	186	186	186	186	186
Panama	270	270	270	270	270	270	336	336	336	336
Puerto Rico	99	99	99	99	99	99	99	99	128	128
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

Wind energy

Énergie éolienne

Energía eólica

CAP (MW)	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Eurasia	5 895	6 695	7 291	7 878	9 963	12 746	13 765	14 429	15 528	17 749
Armenia	3	3	3	3	3	3	3	3	3	3
Azerbaijan	16	16	66	66	66	66	64	67	67	64
Georgia	20	20	20	21	21	21	21	21	21	21
Russian Fed	106	141	196	197	1 041	2 050	2 280	2 532	2 567	2 880
Türkiye	5 751	6 516	7 005	7 591	8 832	10 607	11 396	11 806	12 871	14 781
Europe	155 727	170 616	181 788	196 127	207 816	221 396	240 349	257 162	271 705	285 434
Austria	2 730	2 887	3 133	3 224	3 226	3 422	3 622	3 896	4 092	4 292
Belarus	62	84	92	112	112	112	120	122	122	122
Belgium	2 334	2 779	3 305	3 864	4 673	4 948	5 303	5 454	5 644	5 851
Bosnia Herzg	0	0	51	87	87	135	135	135	219	273
Bulgaria	699	698	699	703	703	704	704	704	706	706
Croatia	483	576	586	646	801	987	987	1 160	1 303	1 375
Cyprus	158	158	158	158	158	158	158	158	158	170
Czechia	282	308	316	339	339	339	339	343	363	369
Denmark	5 245	5 489	6 123	6 111	6 259	7 004	7 105	7 291	7 512	7 547
Estonia	310	312	310	316	317	316	316	337	693	705
Faroe Islands	20	20	16	13	19	23	48	66	68	68
Finland	1 565	2 044	2 041	2 284	2 586	3 257	5 677	6 946	8 360	9 383
France	11 567	13 499	14 900	16 444	17 455	18 442	20 915	23 096	24 241	25 655
Germany	49 435	55 580	58 721	60 742	62 201	63 711	66 202	69 438	72 745	77 873
Greece	2 370	2 624	2 877	3 589	4 119	4 649	4 702	5 232	5 366	5 706
Hungary	329	329	329	323	323	324	324	325	325	325
Iceland	3	2	2	2	2	2	2	4	4	4
Ireland	2 802	3 319	3 674	4 126	4 307	4 339	4 536	4 739	4 943	5 128
Italy	9 384	9 737	10 230	10 679	10 871	11 254	11 821	12 307	12 960	13 568
Kosovo*	1	34	34	34	34	34	68	68	89	89
Latvia	70	77	78	78	78	77	82	128	131	133
Lithuania	509	518	533	534	540	671	946	1 284	1 832	2 510
Luxembourg	120	120	123	136	153	136	165	207	213	232
Malta	0	0	0	0	0	0	0	0	0	0
Moldova Rep	2	9	33	35	41	67	115	141	158	247
Montenegro		72	72	118	118	118	118	118	118	118
Netherlands	4 257	4 202	4 393	4 484	6 648	7 646	8 700	10 802	11 702	11 783
North Macedonia	37	37	37	37	37	37	37	73	73	103
Norway	883	1 207	1 710	2 914	4 030	5 049	5 062	5 064	5 158	5 158
Poland	5 747	5 759	5 766	5 838	6 298	6 967	8 150	9 343	10 152	10 602
Portugal	5 124	5 124	5 172	5 223	5 122	5 427	5 538	5 538	5 600	5 605
Romania	3 025	3 030	3 032	3 038	3 013	3 015	3 015	3 027	3 095	3 283
Serbia	17	25	227	398	398	398	398	510	604	803
Slovakia	3	4	4	4	4	4	4	4	4	4
Slovenia	3	3	3	3	3	3	3	3	3	4
Spain	22 990	23 124	23 405	25 590	26 819	27 908	30 114	30 868	32 184	33 301
Sweden	6 435	6 611	7 300	8 681	9 976	12 116	14 279	16 224	16 819	17 819
Switzerland	75	75	75	75	87	88	88	88	102	111
UK	16 126	19 585	21 606	23 887	24 458	25 748	28 688	30 156	32 082	33 088
Ukraine	526	553	621	1 258	1 402	1 761	1 761	1 761	1 761	1 761
European Union	137 975	148 912	157 212	167 157	176 992	187 825	203 709	218 856	231 148	243 491
Middle East	409	494	623	785	933	1 041	1 581	1 911	1 937	1 939
Bahrain	1	1	1	1	1	1	3	3	3	3
Iran IR	191	259	282	305	308	310	342	365	376	378
Israel	27	27	27	27	27	27	136	343	347	347
Jordan	184	198	295	384	529	632	632	631	631	631
Kuwait	2	2	12	12	12	12	12	12	12	12
Lebanon	3	3	3	3	3	3	3	3	3	3
Oman				50	50	50	50	50	50	50
Saudi Arabia		3	3	3	3	3	400	400	400	400
Syrian AR							3	5	5	5
United Arab Em						0	0	99	110	110
N America	97 310	104 028	111 513	123 432	139 005	154 199	164 372	170 975	177 516	184 038
Canada	11 973	12 250	12 816	13 220	13 532	13 878	15 237	16 137	17 805	18 153
Greenland			0	0	0	0	0	0	0	0
Mexico	4 051	4 180	4 180	6 541	6 995	7 469	7 634	7 318	7 512	7 512
USA	81 286	87 598	94 517	103 670	118 478	132 852	141 501	147 520	152 199	158 373
Oceania	5 425	6 150	7 153	8 626	10 949	11 520	12 985	14 129	15 084	15 869
Australia	4 683	5 407	6 409	7 881	10 207	10 555	11 966	12 908	13 744	14 529
Cook Is	0	0	0	0	0	0	0	0	0	0
Fiji	10	10	10	10	10	10	10	10	10	10
Fr Polynesia	0	0	0	0	0	0	0	0	0	0
Guam	0	0	0	0	0	0	0	0	0	0
Marshall Is	0	0	0	0	0	0	0	0	0	0
Micronesia			1	1	1	1	1	1	1	1
New Caledon	38	38	38	38	38	38	58	58	58	58
New Zealand	690	691	691	691	688	911	944	1 146	1 265	1 265
Samoa	1	1	1	1	1	1	1	1	1	1
Tokelau				0	0	0	0	0	0	0
Tonga	0	0	0	1	1	1	1	1	1	1
Vanuatu	4	3	3	3	3	3	3	3	3	3

Wind energy

Énergie éolienne

Energía eólica

CAP (MW)	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
S America	13 121	15 853	18 963	21 074	24 179	29 581	33 622	40 178	44 794	48 395
Argentina	188	228	751	1 609	2 624	3 292	3 310	3 706	4 320	4 497
Bolivia	27	27	27	27	27	128	128	135	135	135
Brazil	10 322	12 451	14 514	15 457	17 217	21 002	24 196	29 113	32 920	34 866
Chile	1 039	1 302	1 692	1 999	2 293	3 140	3 824	4 533	4 716	5 883
Colombia	18	18	18	18	18	18	34	34	34	34
Ecuador	21	21	21	21	21	21	21	71	71	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	0	0
Peru	240	240	372	372	409	409	539	1 016	1 027	1 340
South Georgia	0	0	0	0	0	0	0	0	0	0
Uruguay	1 212	1 513	1 513	1 516	1 516	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)	2016	2017	2018	2019	2020	2021	2022	2023	2024
World	953 511	1 132 062	1 259 464	1 413 875	1 590 347	1 843 675	2 097 401	2 304 352	2 499 291
Africa	7 030	7 182	7 871	9 727	10 741	12 733	12 986	15 102	18 617
Algeria	19	19	10	10	8	11	16	14	14
Cabo Verde	77	68	80	74	64	74	72	70	44
Chad	9	9	9	9	9	9	9	9	9
Djibouti						69	69	112	235
Egypt	2 070	2 212	2 346	3 001	4 245	5 269	5 677	6 350	6 692
Eritrea	2	1	1	1	1	1	1	1	1
Ethiopia	786	782	533	848	609	817	561	576	685
Gambia	2	2	2	2	2	2	2	2	2
Ghana	0	0	0	0	0	0	0	0	0
Kenya	61	56	58	58	51	83	85	81	76
Madagascar	0	0	0	0	0	0	0	0	0
Mauritania	128	130	126	127	126	122	119	236	358
Mauritius	18	15	15	15	18	15	15	9	14
Morocco	3 015	3 050	3 856	4 714	4 607	5 122	5 371	6 561	9 367
Namibia	1	26	26	26	26	26	26	26	26
Reunion	19	14	13	12	14	4	3	18	35
Senegal			23	23	179	400	396	382	374
Seychelles	7	7	7	5	6	5	7	6	6
Somalia	5	6	6	6	6	6	6	6	6
South Africa	337	335	329	294	300	266	224	300	331
Tanzania					4	4	4	4	4
Tunisia	474	449	453	500	465	425	322	338	337
Asia	291 509	368 256	440 344	491 436	554 789	747 713	869 398	1 007 260	1 128 295
Afghanistan	0	0	0	0	0	0	0	0	0
Bangladesh	5	5	5	5	5	5	5	5	58
Bhutan	1	1	1		1	0	0	0	0
Cambodia	0	0	0	0	0	0	0	0	0
China	242 388	305 015	366 452	406 560	467 037	656 705	763 343	886 551	992 318
China HK SAR	1	1	1	1	1	1	1	1	1
Chinese Taipei	1 457	1 722	1 709	1 892	2 309	2 271	3 578	6 238	10 510
India	36 273	47 670	55 009	62 689	63 522	62 272	69 434	74 708	83 380
Indonesia	6	6	8	8	8	8	8	8	8
Japan	6 166	6 490	7 481	7 618	8 970	9 412	9 295	10 489	11 672
Kazakhstan	275	340	461	717	1 077	1 776	2 362	3 786	4 481
Korea DPR	2	2	2	2	3	3	3	3	3
Korea Rep	1 683	2 169	2 465	2 679	3 149	3 180	3 370	3 394	3 388
Maldives	2	2	2	2	2	2	2	2	2
Mongolia	159	155	340	460	458	564	510	533	519
Myanmar	0	0	0	0	0	0	0	0	0
Nepal	0	0	0	0	0	0	0	0	0
Pakistan	1 060	1 729	2 642	2 812	2 504	3 481	4 244	4 244	4 047
Philippines	975	1 094	1 153	1 042	1 026	1 279	1 057	1 351	1 291
Singapore		0	0	0	0	0	0	0	0
Sri Lanka	345	367	326	348	332	653	738	824	797
Thailand	340	1 115	1 643	3 673	3 216	3 556	3 004	3 521	3 497
Uzbekistan				16	16	1		7	790
Viet Nam	370	371	642	910	1 153	2 542	8 444	11 593	11 533
C America + Carib	4 380	4 430	5 853	6 143	5 698	6 244	5 828	6 321	5 558
Aruba	133	131	131	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	35	31	37	32	25	29	29	35	40
Br Virgin Is	2	2	2	2	2	2	2	2	2
Cayman Is			0	1	1	1	1	1	1
Costa Rica	1 147	1 288	1 799	1 796	1 459	1 573	1 369	1 461	1 239
Cuba	21	21	44	66	69	70	64	60	55
Curacao	114	162	231	224	185	193	183	173	197
Dominica	1	1	1	1	1	1	1	1	1
Dominican Rep	313	378	492	782	1 101	1 231	1 175	1 129	1 054
El Salvador				14	132	132	136	167	147
Grenada	0	0	0	0	0	0	0	0	0
Guadeloupe	53	51	52	63	73	107	111	97	76
Guatemala	215	218	320	331	313	324	314	344	286
Haiti			0	0	0	0	0	0	0
Honduras	586	580	931	819	711	778	689	773	669
Jamaica	211	293	305	275	281	265	272	232	238
Martinique	1	1	6	46	42	49	40	34	24
Nicaragua	729	635	801	730	550	656	562	665	567
Panama	617	484	589	678	590	530	584	893	669
Puerto Rico	193	149	108	159	143	166	156	116	155
St Kitts Nevis	8	5	6	6	6	6	6	6	6
Trinidad Tobago	0	0	0	0	0	0	0	0	0
US Virgin Is	0	0	0	0	0	0	0	0	0

Wind energy

Énergie éolienne

Energía eólica

PROD (GWh)	2016	2017	2018	2019	2020	2021	2022	2023	2024
Eurasia	15 528	18 156	20 350	22 255	26 258	34 924	39 418	39 153	42 456
Armenia	2	2	2	3	2	2	2	2	1
Azerbaijan	23	22	83	105	96	91	83	55	51
Georgia	9	88	84	85	91	83	88	86	78
Russian Fed	6	140	232	331	1 241	3 311	4 300	4 900	5 500
Türkiye	15 489	17 904	19 949	21 731	24 828	31 437	34 945	34 109	36 826
Europe	308 182	367 815	384 362	441 685	490 087	469 739	521 148	580 974	593 496
Austria	5 235	6 572	6 030	7 450	6 792	6 740	7 242	8 037	9 257
Belarus	75	97	99	178	194	173	177	178	200
Belgium	5 420	6 521	7 574	9 755	12 819	11 998	12 353	15 444	13 825
Bosnia Herzg	1	1	103	254	262	382	391	356	393
Bulgaria	1 425	1 504	1 318	1 317	1 477	1 434	1 499	1 584	1 377
Croatia	1 014	1 204	1 335	1 467	1 721	2 062	2 138	2 587	2 577
Cyprus	227	211	221	239	240	246	224	208	203
Czechia	497	591	609	700	699	602	641	702	717
Denmark	12 782	14 780	13 902	16 150	16 330	16 054	19 048	19 434	20 553
Estonia	594	723	636	687	844	733	668	683	1 166
Faroe Islands	52	60	64	53	47	54	90	126	154
Finland	3 068	4 795	5 839	6 025	8 256	8 507	12 022	15 043	21 046
France	21 817	25 112	29 182	35 459	40 708	37 693	38 976	51 457	47 499
Germany	79 924	105 693	109 951	125 894	132 102	114 169	124 816	141 764	138 914
Greece	5 146	5 537	6 300	7 266	9 310	10 483	10 883	11 022	12 136
Hungary	684	758	607	729	655	664	610	646	659
Iceland	9	8	4	7	7	6	6	7	13
Ireland	6 249	7 567	8 783	10 185	11 740	9 940	11 393	11 863	11 650
Italy	17 689	17 742	17 716	20 202	18 762	20 927	20 494	23 640	22 322
Kosovo*	0	0	30	91	90	126	363	403	345
Latvia	128	150	122	154	177	141	190	271	276
Lithuania	1 136	1 364	1 144	1 499	1 552	1 362	1 512	2 536	3 448
Luxembourg	101	235	255	281	351	314	312	495	467
Malta	0	0	0	0	0	0	0	0	0
Moldova Rep	3	7	22	37	50	76	142	191	257
Montenegro		97	143	295	315	320	325	312	293
Netherlands	8 170	10 569	10 549	11 508	15 278	18 123	21 566	29 634	33 509
North Macedonia	109	110	97	102	117	103	108	158	166
Norway	2 116	2 854	3 877	5 525	9 913	11 769	14 810	13 965	14 929
Poland	12 588	14 909	12 799	15 107	15 800	16 234	19 780	24 176	24 945
Portugal	12 474	12 248	12 617	13 667	12 299	13 216	13 244	13 145	14 419
Romania	6 590	7 407	6 322	6 773	6 945	6 576	6 997	7 548	6 350
Serbia	26	48	150	898	976	1 085	949	1 068	1 354
Slovakia	6	6	6	6	4	5	4	4	5
Slovenia	6	6	6	6	6	6	6	6	7
Spain	48 905	49 127	50 896	55 647	56 444	62 061	62 784	64 275	62 090
Sweden	15 479	17 609	16 623	19 847	27 526	27 244	33 253	34 245	40 621
Switzerland	110	134	123	147	146	146	151	170	172
UK	37 159	49 641	56 908	63 835	75 623	64 924	80 214	82 146	83 633
Ukraine	1 169	1 819	1 399	2 244	3 511	3 040	766	1 444	1 549
European Union	267 352	312 938	321 342	368 020	398 836	387 533	422 656	480 451	490 037
Middle East	670	947	1 497	1 736	2 313	2 761	4 655	4 735	5 301
Bahrain	1	1	1	1	1	0	2	2	2
Iran IR	264	306	585	634	587	759	812	761	761
Israel	7	180	183	190	204	178	317	464	759
Jordan	391	448	720	892	1 407	1 628	1 750	1 650	1 797
Kuwait		0	2	4	5	71	71	57	57
Lebanon	6	6	0	0					
Oman				9	103	119	115	100	100
Saudi Arabia		5	5	5	5	5	1 588	1 588	1 588
Syrian AR	1	1	1	1	1	1	1	1	15
United Arab Em	0	0				0	0	112	222
N America	270 779	298 921	321 862	347 967	397 479	441 393	499 261	487 679	524 959
Canada	30 930	31 511	33 468	32 873	35 761	37 293	39 474	40 831	47 744
Greenland			0	0	0	0	0	0	0
Mexico	10 378	10 161	12 560	16 894	19 900	21 286	20 517	20 907	20 177
USA	229 471	257 249	275 834	298 200	341 818	382 814	439 270	425 941	457 037
Oceania	14 585	14 735	17 299	20 052	22 773	27 216	32 020	34 707	35 018
Australia	12 199	12 597	15 174	17 712	20 396	24 535	29 108	31 385	30 992
Cook Is	0	0							
Fiji	4	2	3	3	1	0	0	0	1
Fr Polynesia	0	0	0	0	0	0	0	0	0
Guam	0	1	1	1	1	1	1	1	1
Marshall Is	0	0	0	0	0	0	0	0	0
Micronesia			1	1	1	1	1	1	1
New Caledon	45	45	45	57	49	41	43	80	62
New Zealand	2 331	2 085	2 071	2 271	2 317	2 632	2 863	3 236	3 958
Samoa	0	0	0	0	0	0	0	0	0
Tokelau			0	0	0	0	0	0	0
Tonga	0	0	0	1	3	2	1	1	1
Vanuatu	5	5	4	6	6	4	3	3	3

Wind energy

Énergie éolienne

Energía eólica

PROD (GWh)	2016	2017	2018	2019	2020	2021	2022	2023	2024
S America	40 848	51 621	60 025	72 873	80 209	100 952	112 687	128 420	145 591
Argentina	592	660	1 511	5 315	10 149	13 978	14 871	15 215	17 431
Bolivia	35	60	59	70	64	120	441	483	496
Brazil	33 489	42 373	48 475	55 986	57 050	72 286	81 632	95 801	107 654
Chile	2 449	3 521	3 588	4 897	5 602	7 628	8 893	9 391	11 024
Colombia	51	3	43	63	10	60	74	203	146
Ecuador	84	73	80	86	77	62	61	209	224
Falklands Malv	6	5	5	5	4	4	5	5	5
Guyana	0	0	0	0	0	0	0	0	0
Paraguay					0	0	0	0	0
Peru	1 060	1 073	1 502	1 655	1 814	1 823	1 932	2 355	3 866
South Georgia	0	0	0	0	0	0	0	0	0
Uruguay	2 986	3 756	4 718	4 736	5 418	4 971	4 763	4 743	4 728
Venezuela	98	95	43	60	20	19	16	16	16

Onshore wind energy

Énergie éolienne terrestre

Energía eólica terrestre

CAP (MW)	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
World	452 939	496 167	539 956	594 813	698 931	769 922	840 469	943 828	1 049 827	1 199 875
Africa	3 831	4 579	5 472	5 529	6 515	6 910	7 746	8 866	9 586	11 469
Algeria	10 o	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 e	10 u
Cabo Verde	27 o	27 o	27 o	27 o	27 o	27 o	27 o	27 o	27 o	40 u
Chad	1 u	1 u	1 u	1 u	1 o	1 e	1 e	1 e	1 e	1 e
Djibouti						20 u	20 u	80 u	80 e	80 u
Egypt	755 o	755 o	1 130 o	1 132 u	1 380 u	1 640 e	1 643 e	1 890 e	2 199 e	3 028 u
Eritrea	1 u	1 u	1 u	1 u	1 u	1 u	1 u	1 u	1 u	1 u
Ethiopia	324 u	324 u	324 u	324 u	324 o	324 o	404 e	324 u	404 e	504 u
Gambia	1 u	1 u	1 o	1 o	1 o	1 o	1 o	1 o	1 o	1 o
Ghana	0 u	0 u	0 u	0 u	0 u	0 u	0 o	0 o	0 o	0 o
Kenya	26 o	26 u	336 u	336 o	336 o	436 o	436 o	436 o	436 o	436 o
Madagascar	0 o	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u
Mauritania	34 o	34 o	34 u	34 u	34 u	34 u	34 u	137 u	137 e	137 u
Mauritius	11 o	11 o	11 o	11 o	11 o	11 o	11 o	11 o	11 o	11 o
Morocco	902 e	1 022 e	1 225 o	1 225 o	1 435 e	1 471 e	1 558 o	2 076 o	2 395 o	2 452 o
Namibia	0 u	6 o	6 o	6 o	6 o	6 o	6 o	6 o	6 o	6 o
Reunion	17 o	17 u	17 o	17 u	17 u	17 u	15 o	9 o	20 o	20 o
Senegal				55 o	159 o	159 o	159 o	159 o	159 o	159 o
Seychelles	6 o	6 o	6 o	6 o	6 o	6 o	6 o	6 o	6 u	6 o
Somalia	3 u	4 u	4 u	4 u	4 e	4 u	4 u	4 u	4 e	4 u
South Africa	1 473 o	2 094 o	2 094 o	2 094 o	2 516 u	2 495 u	3 163 u	3 442 u	3 442 u	4 326 u
Tanzania					2 u	2 u	2 u	2 u	2 u	2 u
Tunisia	240 e	240 e	245 e	245 e	245 e	245 u	245 u	245 u	245 e	245 u
Asia	182 427	201 940	224 144	251 374	322 530	356 962	393 960	467 937	548 340	671 228
Afghanistan	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u
Bangladesh	3 o	3 o	3 u	3 o	3 o	3 u	3 u	3 u	63 u	63 u
Bhutan	1 u	1 u	1 u	1 u	1 u	1 u	1 u	1 u	1 u	1 u
Cambodia	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u
China	147 037 o	161 586 o	180 077 o	203 652 u	273 003 o	302 583 u	335 504 u	404 605 u	479 996 u	593 236 u
China HK SAR		1 e	1 e	1 e	1 e	1 e	1 o	1 u	1 e	1 u
Chinese Taipei	682 o	684 o	705 o	717 o	809 o	825 o	836 o	914 o	918 o	930 o
India	28 700 o	32 848 o	35 288 o	37 505 o	38 559 o	40 067 u	41 930 u	44 736 u	48 163 u	54 511 o
Indonesia	1 o	1 o	144 o	154 o	154 u	154 u	154 u	152 u	152 o	152 u
Japan	3 140 o	3 418 o	3 433 o	3 886 o	4 061 o	4 210 o	4 303 o	5 069 o	5 570 o	5 950 o
Kazakhstan	98 o	112 o	121 u	284 u	486 e	684 e	1 108 e	1 395 e	1 520 u	1 909 u
Korea DPR	1 u	1 u	1 u	1 u	2 u	2 u	2 u	2 u	2 u	2 u
Korea Rep	995 o	1 098 u	1 230 u	1 421 u	1 509 u	1 573 u	1 803 u	2 019 u	2 116 u	2 205 u
Lao PDR										1 150 u
Maldives	1 u	1 u	1 u	1 u	1 u	1 u	1 u	1 u	1 e	1 u
Mongolia	51 u	101 u	156 u	156 u	156 e	156 o	156 e	155 u	156 u	155 u
Myanmar	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 e	0 u
Nepal	0 u	0 u	0 o	0 o	0 u	0 u	0 u	0 u	0 u	0 u
Pakistan	591 e	789 e	1 186 e	1 236 e	1 236 e	1 335 e	1 845 e	1 845 e	1 845 e	1 845 e
Philippines	427 o	427 o	427 o	443 u	443 u	443 u	443 u	443 u	443 u	518 u
Singapore		0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u
Sri Lanka	131 o	131 o	128 o	128 o	179 o	252 o	252 o	267 o	267 o	267 u
Thailand	507 u	628 u	1 103 u	1 507 u	1 507 u	1 545 u	1 545 u	1 544 u	1 544 u	1 544 o
Uzbekistan		1 u	1 u	1 u	1 e	1 u	1 e	1 u	501 u	1 652 u
Viet Nam	61 u	106 u	138 u	275 u	419 u	3 124 u	4 071 u	4 784 u	5 081 u	5 135 u
C America + Carib	1 485	1 611	1 737	1 956	1 970	1 993	2 111	2 128	2 191	2 268
Aruba	30 e	30 e	30 u	30 o	30 u	30 u	30 u	30 u	30 u	20 o
Bahamas	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u
Barbados	0 u	0 u	0 u	0 u	0 u	0 u	1 u	1 u	1 u	1 u
Belize	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u
BES Islands	11 u	11 u	11 u	11 u	11 u	11 u	11 u	11 u	11 u	11 o
Br Virgin Is	1 u	1 u	1 u	1 u	1 u	1 u	1 u	1 u	1 u	1 u
Cayman Is			1 u	1 u	1 u	1 u	1 u	1 u	1 u	1 u
Costa Rica	319 o	378 o	408 o	411 o	394 o	390 o	390 o	408 o	402 o	437 o
Cuba	16 e	16 e	16 e	16 e	16 e	16 e	16 e	16 e	16 e	16 o
Curacao	30 e	47 u	47 e	47 e	47 e	47 u	47 u	47 u	70 u	70 o
Dominica	0 e	0 e	0 e	0 e	0 e	0 u	0 u	0 u	0 e	0 o
Dominican Rep	135 e	135 e	183 e	370 e	370 o	370 e	417 e	417 e	433 u	482 o
El Salvador					36 o	54 o	54 u	54 o	54 o	54 o
Grenada	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u
Guadeloupe	27 e	27 e	43 e	48 e	42 e	52 e	56 e	56 e	57 e	57 o
Guatemala	76 o	76 o	107 o	107 o	107 o	107 o	107 o	107 o	107 o	107 o
Haiti			0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u
Honduras	179 u	229 u	229 u	239 u	239 u	239 e	239 e	239 e	239 e	242 u
Jamaica	102 u	102 u	102 u	102 u	102 u	102 u	102 u	102 u	102 u	102 u
Martinique	1 o	1 u	1 o	14 e	15 e	14 e	14 u	14 u	14 u	14 o
Nicaragua	186 e	186 e	186 o	186 o	186 o	186 u	186 u	186 u	186 o	186 u
Panama	270 e	270 e	270 o	270 o	270 u	270 e	336 e	336 e	336 e	336 e
Puerto Rico	99 e	99 e	99 e	99 e	99 e	99 e	99 e	99 o	128 e	128 o
St Kitts Nevis	2 e	2 u	2 u	2 u	2 u	2 u	2 u	2 u	2 u	2 u
Trinidad Tobago	0 e	0 e	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 o
US Virgin Is	0 o	0 o	0 u	0 u	0 u	0 u	0 u	0 e	0 e	0 o

Onshore wind energy

Énergie éolienne terrestre

Energía eólica terrestre

CAP (MW)	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Eurasia	5 895	6 695	7 291	7 878	9 963	12 746	13 765	14 429	15 528	17 749
Armenia	3 o	3 u	3 o	3 u	3 u	3 u	3 e	3 e	3 u	3 u
Azerbaijan	16 u	16 u	66 u	66 u	66 e	66 e	64 e	67 u	67 u	64 u
Georgia	20 o	20 o	20 o	21 o	21 u	21 u	21 u	21 u	21 u	21 u
Russian Fed	106 u	141 u	196 u	197 u	1 041 u	2 050 u	2 280 u	2 532 u	2 567 u	2 880 u
Türkiye	5 751 o	6 516 o	7 005 o	7 591 o	8 832 o	10 607 o	11 396 o	11 806 o	12 871 o	14 781 o
Europe	143 063	154 846	163 091	174 188	182 917	195 010	210 369	223 316	235 022	247 091
Austria	2 730 o	2 887 o	3 133 o	3 224 o	3 226 e	3 422 o	3 622 o	3 896 o	4 092 o	4 292 o
Belarus	62 o	84 o	92 o	112 o	112 o	112 o	120 o	122 u	122 u	122 u
Belgium	1 622 o	1 902 e	2 119 e	2 308 o	2 411 o	2 687 o	3 042 o	3 192 o	3 383 o	3 589 u
Bosnia Herzg	0 o	0 o	51 o	87 o	87 o	135 u	135 e	135 o	219 u	273 o
Bulgaria	699 o	698 o	699 o	703 o	703 o	704 o	704 o	704 o	706 o	706 u
Croatia	483 o	576 o	586 o	646 o	801 o	987 o	987 o	1 160 o	1 303 o	1 375 o
Cyprus	158 o	158 o	158 o	158 o	158 o	158 o	158 e	158 o	158 e	170 u
Czechia	282 o	308 o	316 o	339 o	339 o	339 o	339 o	343 o	363 o	369 o
Denmark	3 974 o	4 225 o	4 422 e	4 410 e	4 558 o	4 698 o	4 804 o	4 822 o	4 868 o	4 903 u
Estonia	310 o	312 o	310 o	316 o	317 o	316 o	316 o	337 e	693 o	705 o
Faroe Islands	20 o	20 u	16 o	13 u	19 e	23 e	48 u	66 u	68 u	68 u
Finland	1 533 u	2 012 o	2 009 o	2 252 o	2 554 o	3 225 o	5 645 o	6 914 o	8 328 o	9 351 u
France	11 556 o	13 489 o	14 887 o	16 430 o	17 441 o	18 428 o	20 414 o	21 610 o	22 747 o	23 753 u
Germany	45 283 o	50 174 o	52 328 o	53 187 o	54 414 o	55 904 o	57 986 o	60 965 o	63 530 o	68 140 u
Greece	2 370 o	2 624 o	2 877 o	3 589 o	4 119 o	4 649 o	4 702 o	5 232 o	5 366 o	5 706 u
Hungary	329 o	329 o	329 o	323 o	323 o	324 o	324 e	325 o	325 o	325 o
Iceland	3 o	2 o	2 o	2 o	2 o	2 o	2 e	4 o	4 e	4 u
Ireland	2 776 o	3 294 o	3 649 o	4 101 o	4 282 o	4 314 e	4 511 o	4 714 o	4 918 o	5 103 o
Italy	9 384 o	9 737 o	10 230 o	10 679 o	10 871 o	11 254 o	11 821 o	12 276 o	12 929 o	13 537 o
Kosovo*	1 o	34 o	34 o	34 o	34 o	34 o	68 o	68 o	89 u	89 u
Latvia	70 o	77 o	78 o	78 o	78 o	77 o	82 o	128 o	131 o	133 o
Lithuania	509 o	518 o	533 o	534 o	540 o	671 o	946 o	1 284 o	1 832 o	2 510 o
Luxembourg	120 o	120 o	123 o	136 o	153 o	136 o	165 o	207 o	213 o	232 o
Malta	0 o	0 o	0 u	0 u	0 o	0 o	0 e	0 o	0 e	0 u
Moldova Rep	2 u	9 u	33 e	35 o	41 o	67 o	115 o	141 o	158 u	247 u
Montenegro		72 u	72 o	118 u	118 u	118 u	118 e	118 u	118 e	118 e
Netherlands	3 300 e	3 245 o	3 436 o	3 527 o	4 188 o	5 186 o	6 131 o	6 692 o	6 955 o	7 035 o
North Macedonia	37 o	37 o	37 o	37 o	37 o	37 o	37 o	73 o	73 o	103 u
Norway	881 u	1 205 o	1 708 o	2 912 o	4 028 o	5 047 o	5 060 o	5 062 o	5 063 o	5 063 o
Poland	5 747 o	5 759 o	5 766 o	5 838 o	6 298 o	6 967 o	8 150 o	9 343 o	10 152 o	10 602 o
Portugal	5 124 o	5 124 o	5 172 o	5 223 o	5 097 o	5 402 o	5 513 o	5 513 o	5 575 o	5 580 o
Romania	3 025 o	3 030 o	3 032 o	3 038 o	3 013 o	3 015 o	3 015 o	3 027 o	3 095 o	3 283 u
Serbia	17 o	25 u	227 o	398 o	398 o	398 u	398 e	510 o	604 o	803 u
Slovakia	3 o	4 u	4 o	4 o	4 o	4 o	4 e	4 u	4 e	4 u
Slovenia	3 o	3 o	3 o	3 o	3 o	3 e	3 e	3 u	3 o	4 o
Spain	22 985 o	23 119 o	23 400 o	25 585 o	26 814 o	27 903 e	30 109 o	30 863 o	32 179 o	33 296 o
Sweden	6 232 o	6 408 o	7 097 o	8 478 o	9 773 o	11 923 o	14 086 o	16 031 o	16 626 o	17 188 u
Switzerland	75 o	75 u	75 o	75 u	87 o	88 o	88 o	88 o	102 o	111 u
UK	10 833 o	12 597 o	13 425 e	13 999 e	14 075 o	14 493 o	14 840 o	15 424 o	16 166 o	16 438 u
Ukraine	526 o	553 e	621 u	1 258 u	1 402 e	1 761 u	1 761 u	1 761 u	1 761 e	1 761 e
European Union	130 606	140 132	146 698	155 110	162 478	172 697	187 579	199 745	210 475	221 892
Middle East	409	494	623	785	933	1 041	1 581	1 911	1 937	1 939
Bahrain	1 o	1 o	1 o	1 o	1 o	1 o	3 o	3 o	3 e	3 u
Iran IR	191 o	259 o	282 o	305 o	308 o	310 e	342 u	365 u	376 u	378 e
Israel	27 u	27 u	27 u	27 u	27 u	27 u	136 u	343 u	347 o	347 o
Jordan	184 e	198 o	295 e	384 e	529 e	632 e	632 u	631 u	631 u	631 u
Kuwait	2 u	2 u	12 u	12 u	12 u	12 u	12 u	12 u	12 u	12 u
Lebanon	3 u	3 u	3 u	3 u	3 u	3 u	3 u	3 u	3 u	3 u
Oman				50 o	50 u	50 u	50 u	50 u	50 u	50 u
Saudi Arabia		3 o	3 o	3 o	3 o	3 o	400 o	400 o	400 o	400 o
Syrian AR						3 o	3 o	5 o	5 o	5 o
United Arab Em						0 o	0 o	99 o	110 o	110 o
N America	97 281	103 999	111 484	123 402	138 976	154 158	164 331	170 934	177 345	183 866
Canada	11 973 o	12 250 o	12 816 o	13 220 o	13 532 u	13 878 o	15 237 o	16 137 o	17 805 o	18 153 u
Greenland			0 u	0 u	0 u	0 u	0 e	0 e	0 e	0 u
Mexico	4 051 u	4 180 u	4 180 e	6 541 e	6 995 u	7 469 u	7 634 u	7 318 u	7 512 o	7 512 u
USA	81 257 o	87 568 o	94 487 o	103 641 o	118 448 o	132 811 o	141 460 o	147 479 o	152 028 o	158 201 o
Oceania	5 425	6 150	7 153	8 626	10 949	11 520	12 985	14 129	15 084	15 869
Australia	4 683 o	5 407 o	6 409 o	7 881 o	10 207 o	10 555 o	11 966 o	12 908 o	13 744 o	14 529 o
Cook Is	0 u	0 u	0 u	0 u	0 u	0 u	0 e			
Fiji	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 o
Fr Polynesia	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u
Guam	0 o	0 o	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u
Marshall Is	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u
Micronesia			1 u	1 u	1 u	1 u	1 u	1 u	1 u	1 u
New Caledon	38 o	38 o	38 o	38 u	38 u	38 u	58 e	58 u	58 e	58 o
New Zealand	690 o	691 o	691 o	691 o	688 o	911 o	944 o	1 146 o	1 265 o	1 265 u
Samoa	1 o	1 o	1 o	1 u	1 u	1 u	1 u	1 u	1 u	1 u
Tokelau				0 o	0 u	0 u	0 u	0 u	0 u	0 e
Tonga	0 u	0 u	0 u	1 u	1 u	1 u	1 u	1 u	1 u	1 u
Vanuatu	4 u	3 u	3 u	3 u	3 u	3 u	3 u	3 u	3 u	3 o

Onshore wind energy

Énergie éolienne terrestre

Energía eólica terrestre

CAP (MW)	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
S America	13 121	15 853	18 963	21 074	24 179	29 581	33 622	40 178	44 794	48 395
Argentina	188 o	228 o	751 o	1 609 o	2 624 o	3 292 o	3 310 o	3 706 e	4 320 u	4 497 u
Bolivia	27 o	27 o	27 o	27 o	27 o	128 o	128 e	135 o	135 o	135 o
Brazil	10 322 u	12 451 u	14 514 u	15 457 u	17 217 u	21 002 u	24 196 u	29 113 u	32 920 o	34 866 o
Chile	1 039 o	1 302 o	1 692 o	1 999 o	2 293 o	3 140 o	3 824 o	4 533 o	4 716 o	5 883 o
Colombia	18 o	18 o	18 o	18 o	18 o	18 o	34 o	34 o	34 o	34 o
Ecuador	21 o	21 o	21 o	21 o	21 o	21 o	21 o	71 o	71 o	71 o
Falklands Malv	3 u	3 u	3 u	3 u	3 u	3 u	3 u	3 u	3 u	3 u
Guyana	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u
Paraguay					0 o	0 o	0 o	0 u	0 u	0 u
Peru	240 e	240 e	372 u	372 e	409 u	409 e	539 e	1 016 u	1 027 o	1 340 u
South Georgia	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u
Uruguay	1 212 u	1 513 o	1 513 o	1 516 o	1 516 o	1 516 o	1 516 o	1 516 o	1 516 u	1 516 o
Venezuela	50 u	50 u	50 u	50 u	50 u	50 u	50 u	50 u	50 u	50 u

Onshore wind energy

Énergie éolienne terrestre

Energía eólica terrestre

PROD (GWh)	2016	2017	2018	2019	2020	2021	2022	2023	2024
World	911 853	1 075 151	1 191 132	1 329 314	1 485 981	1 705 751	1 934 574	2 116 604	2 295 782
Africa	7 030	7 182	7 871	9 727	10 741	12 733	12 986	15 102	18 617
Algeria	19 o	19 u	10 o	10 o	8 o	11 u	16 e	14 u	14 u
Cabo Verde	77 o	68 o	80 o	74 o	64 o	74 o	72 o	70 o	44 o
Chad	9 e	9 e	9 e	9 e	9 e	9 e	9 e	9 e	9 e
Djibouti						69 e	69 u	112 u	235 u
Egypt	2 070 u	2 212 u	2 346 u	3 001 u	4 245 e	5 269 e	5 677 u	6 350 o	6 692 e
Eritrea	2 e	1 e	1 e	1 e	1 e	1 e	1 e	1 e	1 e
Ethiopia	786 u	782 o	533 o	848 u	609 u	817 u	561 u	576 u	685 u
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	0 e
Kenya	61 e	56 e	58 e	58 e	51 e	83 e	85 e	81 e	76 e
Madagascar	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e
Mauritania	128 u	130 u	126 u	127 u	126 u	122 u	119 u	236 u	358 u
Mauritius	18 o	15 o	15 o	15 o	18 o	15 o	15 o	9 o	14 o
Morocco	3 015 o	3 050 u	3 856 u	4 714 o	4 607 o	5 122 u	5 371 u	6 561 u	9 367 u
Namibia	1 e	26 e	26 e	26 e	26 e	26 e	26 e	26 e	26 e
Reunion	19 u	14 o	13 o	12 o	14 o	4 o	3 o	18 o	35 o
Senegal				23 o	179 o	400 o	396 o	382 o	374 o
Seychelles	7 o	7 o	7 o	5 o	6 o	5 o	7 o	6 o	6 o
Somalia	5 u	6 u	6 u	6 u	6 u	6 u	6 u	6 u	6 u
South Africa	337 e	335 e	329 e	294 e	300 e	266 e	224 e	300 e	331 e
Tanzania					4 e	4 e	4 e	4 e	4 e
Tunisia	474 o	449 o	453 o	500 o	465 o	425 o	322 o	338 o	337 o
Asia	288 687	362 686	430 690	479 267	538 800	693 483	802 133	925 024	1 038 173
Afghanistan	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u
Bangladesh	5 u	5 u	5 u	5 u	5 u	5 u	5 u	5 u	58 u
Bhutan	1 u	1 u	1 u		1 o	0 u	0 u	0 o	0 o
Cambodia	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u
China	239 971 o	299 838 o	357 340 u	395 048 u	452 142 u	603 994 u	699 771 u	811 701 u	913 722 u
China HK SAR	1 o	1 o	1 o	1 o	1 o	1 o	1 o	1 u	1 u
Chinese Taipei	1 457 u	1 702 u	1 683 u	1 716 u	1 793 u	1 701 u	2 083 o	1 741 o	1 898 o
India	36 273 o	47 670 u	55 009 o	62 689 u	63 522 u	62 272 u	69 434 u	74 708 u	83 380 u
Indonesia	6 o	6 u	8 u	8 u	8 u	8 u	8 u	8 u	8 o
Japan	6 061 o	6 386 o	7 377 o	7 512 o	8 875 o	9 328 o	9 002 o	10 002 o	11 185 o
Kazakhstan	275 o	340 o	461 o	717 o	1 077 e	1 776 u	2 362 u	3 786 u	4 481 o
Korea DPR	2 u	2 u	2 u	2 u	3 u	3 u	3 u	3 u	3 e
Korea Rep	1 617 u	2 083 u	2 327 u	2 548 u	2 889 u	2 927 u	3 122 u	3 165 u	3 019 u
Maldives	2 u	2 e	2 u	2 u	2 u	2 u	2 u	2 u	2 u
Mongolia	159 u	155 o	340 o	460 o	458 o	564 o	510 o	533 u	519 u
Myanmar	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u
Nepal	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u
Pakistan	1 060 e	1 729 e	2 642 e	2 812 e	2 504 e	3 481 e	4 244 e	4 244 e	4 047 e
Philippines	975 o	1 094 o	1 153 o	1 042 u	1 026 u	1 279 u	1 057 u	1 351 u	1 291 u
Singapore		0 e	0 o	0 u	0 u	0 u	0 u	0 u	0 u
Sri Lanka	345 u	367 u	326 u	348 u	332 u	653 u	738 u	824 u	797 o
Thailand	340 u	1 115 u	1 643 u	3 673 u	3 216 u	3 556 u	3 004 u	3 521 u	3 497 u
Uzbekistan				16 o	16 o	1 o		7 u	790 u
Viet Nam	137 u	189 u	369 u	667 u	931 u	1 929 u	6 787 u	9 419 u	9 475 u
C America + Carib	4 380	4 430	5 853	6 143	5 698	6 244	5 828	6 321	5 558
Aruba	133 u	131 u	131 u	131 u	131 u	131 u	131 u	131 u	131 u
Bahamas	1 u	1 u	1 u	1 u	1 u	1 u	1 u	1 u	1 u
Barbados	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u
Belize	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e
BES Islands	35 e	31 e	37 e	32 e	25 e	29 e	29 e	35 e	40 u
Br Virgin Is	2 u	2 u	2 u	2 u	2 u	2 u	2 u	2 e	2 u
Cayman Is			0 u	1 u	1 u	1 u	1 u	1 e	1 u
Costa Rica	1 147 o	1 288 o	1 799 o	1 796 o	1 459 o	1 573 o	1 369 o	1 461 o	1 239 o
Cuba	21 u	21 u	44 u	66 u	69 u	70 u	64 u	60 e	55 u
Curacao	114 e	162 e	231 e	224 e	185 e	193 e	183 e	173 e	197 o
Dominica	1 u	1 u	1 u	1 e	1 e	1 u	1 u	1 u	1 e
Dominican Rep	313 e	378 e	492 e	782 o	1 101 o	1 231 e	1 175 e	1 129 e	1 054 o
El Salvador					14 o	132 o	136 o	167 o	147 o
Grenada	0 u	0 u	0 u	0 e	0 u	0 u	0 u	0 u	0 o
Guadeloupe	53 o	51 o	52 o	63 e	73 e	107 e	111 e	97 e	76 o
Guatemala	215 o	218 o	320 o	331 o	313 o	324 o	314 o	344 o	286 o
Haiti			0 e	0 e	0 e	0 u	0 e	0 e	0 o
Honduras	586 e	580 e	931 e	819 e	711 e	778 e	689 e	773 e	669 e
Jamaica	211 o	293 o	305 o	275 o	281 o	265 o	272 e	232 o	238 o
Martinique	1 o	1 o	6 o	46 e	42 e	49 e	40 e	34 e	24 o
Nicaragua	729 o	635 o	801 o	730 e	550 e	656 e	562 e	665 e	567 o
Panama	617 e	484 e	589 e	678 e	590 e	530 e	584 e	893 e	669 e
Puerto Rico	193 e	149 e	108 e	159 e	143 e	166 e	156 e	116 e	155 o
St Kitts Nevis	8 e	5 e	6 e	6 u	6 u	6 u	6 u	6 e	6 u
Trinidad Tobago	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 e	0 u
US Virgin Is	0 u	0 u	0 u	0 u	0 u	0 u	0 e	0 e	0 e

Onshore wind energy

Énergie éolienne terrestre

Energía eólica terrestre

PROD (GWh)	2016	2017	2018	2019	2020	2021	2022	2023	2024
Eurasia	15 528	18 156	20 350	22 255	26 258	34 924	39 418	39 153	42 456
Armenia	2 o	2 o	2 u	3 u	2 u	2 u	2 u	2 u	1 o
Azerbaijan	23 o	22 o	83 o	105 o	96 e	91 o	83 u	55 e	51 o
Georgia	9 o	88 o	84 o	85 o	91 o	83 o	88 u	86 e	78 o
Russian Fed	6 u	140 u	232 u	331 u	1 241 u	3 311 u	4 300 o	4 900 o	5 500 o
Türkiye	15 489 o	17 904 o	19 949 o	21 731 o	24 828 o	31 437 o	34 945 o	34 109 o	36 826 o
Europe	269 447	316 576	325 787	369 396	401 854	386 189	425 731	476 063	480 708
Austria	5 235 o	6 572 o	6 030 o	7 450 o	6 792 o	6 740 o	7 242 o	8 037 o	9 257 o
Belarus	75 o	97 o	99 o	178 o	194 o	173 o	177 u	178 e	200 e
Belgium	3 029 o	3 650 o	4 163 o	4 961 o	5 845 o	5 071 o	5 701 o	7 404 o	6 629 o
Bosnia Herzg	1 u	1 o	103 o	254 o	262 o	382 o	391 o	356 o	393 o
Bulgaria	1 425 o	1 504 o	1 318 o	1 317 o	1 477 o	1 434 o	1 499 o	1 584 o	1 377 o
Croatia	1 014 o	1 204 o	1 335 o	1 467 o	1 721 o	2 062 o	2 138 o	2 587 o	2 577 o
Cyprus	227 o	211 o	221 o	239 o	240 o	246 o	224 o	208 o	203 o
Czechia	497 o	591 o	609 o	700 o	699 o	602 o	641 o	702 o	717 o
Denmark	8 132 o	9 600 o	9 272 o	9 952 o	9 727 o	8 462 o	10 305 o	10 861 o	10 821 o
Estonia	594 o	723 u	636 o	687 o	844 o	733 o	668 o	683 o	1 166 o
Faroe Islands	52 o	60 o	64 o	53 o	47 e	54 e	90 e	126 e	154 o
Finland	3 056 o	4 693 o	5 601 o	5 754 o	7 951 o	8 240 o	11 749 o	14 800 o	20 788 o
France	21 789 o	25 082 o	29 155 o	35 426 o	40 677 o	37 662 o	38 314 o	49 504 o	43 410 o
Germany	67 650 o	88 018 o	90 484 o	101 150 o	104 796 o	89 795 o	99 692 o	117 877 o	112 846 o
Greece	5 146 o	5 537 o	6 300 o	7 266 o	9 310 o	10 483 o	10 883 o	11 022 o	12 136 o
Hungary	684 o	758 o	607 o	729 o	655 o	664 o	610 o	646 o	659 o
Iceland	9 o	8 o	4 o	7 o	7 o	6 o	6 u	7 o	13 o
Ireland	6 168 o	7 486 o	8 702 o	10 104 o	11 659 o	9 859 o	11 312 o	11 782 o	11 569 o
Italy	17 689 o	17 742 o	17 716 o	20 202 o	18 762 o	20 927 o	20 494 o	23 587 o	22 271 o
Kosovo*	0 o	0 o	30 o	91 o	90 o	126 o	363 o	403 o	345 o
Latvia	128 o	150 o	122 o	154 o	177 o	141 o	190 o	271 o	276 o
Lithuania	1 136 o	1 364 o	1 144 o	1 499 o	1 552 o	1 362 o	1 512 o	2 536 o	3 448 o
Luxembourg	101 o	235 o	255 o	281 o	351 o	314 o	312 o	495 o	467 o
Malta	0 o	0 o	0 o	0 o	0 o	0 o	0 o	0 o	0 o
Moldova Rep	3 o	7 o	22 u	37 u	50 u	76 u	142 u	191 u	257 o
Montenegro		97 o	143 o	295 o	315 o	320 o	325 o	312 o	293 o
Netherlands	5 901 o	6 869 o	6 918 o	7 935 o	9 794 o	10 058 o	13 440 o	17 842 o	18 021 o
North Macedonia	109 o	110 o	97 o	102 o	117 o	103 o	108 o	158 o	166 o
Norway	2 111 o	2 849 o	3 872 u	5 520 u	9 908 u	11 764 u	14 805 o	13 960 o	14 545 o
Poland	12 588 o	14 909 o	12 799 o	15 107 o	15 800 o	16 234 o	19 780 o	24 176 o	24 945 o
Portugal	12 474 o	12 248 o	12 617 o	13 667 o	12 247 o	13 164 o	13 166 o	13 066 o	14 333 o
Romania	6 590 o	7 407 o	6 322 o	6 773 o	6 945 o	6 576 o	6 997 o	7 548 o	6 350 o
Serbia	26 o	48 o	150 o	898 o	976 o	1 085 o	949 o	1 068 o	1 354 o
Slovakia	6 o	6 o	6 o	6 o	4 o	5 o	4 o	4 o	5 o
Slovenia	6 o	6 o	6 o	6 o	6 o	6 o	6 o	6 o	7 o
Spain	48 894 o	49 116 o	50 885 o	55 636 o	56 433 o	62 050 u	62 773 o	64 270 o	62 089 o
Sweden	14 871 o	16 939 o	16 073 o	19 241 o	26 893 o	26 697 o	32 703 o	33 696 o	40 072 o
Switzerland	110 o	134 o	123 o	147 o	147 o	146 o	151 o	170 o	172 u
UK	20 753 u	28 725 u	30 382 u	31 860 u	34 873 o	29 327 o	35 102 o	32 496 o	34 829 o
Ukraine	1 169 o	1 819 o	1 399 o	2 244 o	3 511 o	3 040 u	766 u	1 444 o	1 549 o
European Union	245 029	282 620	289 297	327 711	351 358	339 586	372 356	425 194	426 439
Middle East	670	947	1 497	1 736	2 313	2 761	4 655	4 735	5 301
Bahrain	1 o	1 o	1 u	1 u	1 u	0 o	2 o	2 o	2 o
Iran IR	264 o	306 o	585 o	634 o	587 o	759 o	812 u	761 u	761 u
Israel	7 o	180 e	183 e	190 e	204 e	178 u	317 u	464 e	759 o
Jordan	391 o	448 o	720 o	892 o	1 407 o	1 628 o	1 750 u	1 650 e	1 797 u
Kuwait		0 u	2 u	4 u	5 u	71 u	71 u	57 u	57 u
Lebanon	6 u	6 u	0 u	0 u					
Oman			9 o	9 o	103 o	119 o	115 o	100 o	100 o
Saudi Arabia		5 u	5 u	5 u	5 u	5 u	1 588 u	1 588 u	1 588 u
Syrian AR	1 u	1 u	1 u	1 u	1 u	1 u	1 u	1 e	15 o
United Arab Em	0 u	0 u				0 o	0 o	112 o	222 o
N America	270 676	298 818	321 759	347 864	397 334	441 248	499 116	487 079	524 358
Canada	30 930 o	31 511 o	33 468 u	32 873 u	35 761 u	37 293 o	39 474 o	40 831 o	47 744 o
Greenland			0 u	0 u	0 e	0 e	0 e	0 e	0 u
Mexico	10 378 u	10 161 u	12 560 u	16 894 u	19 900 u	21 286 u	20 517 u	20 907 u	20 177 u
USA	229 368 u	257 146 u	275 731 u	298 097 u	341 673 u	382 669 u	439 125 u	425 341 u	456 437 u
Oceania	14 585	14 735	17 299	20 052	22 773	27 216	32 020	34 707	35 018
Australia	12 199 o	12 597 o	15 174 o	17 712 o	20 396 o	24 535 o	29 108 o	31 385 o	30 992 o
Cook Is	0 o	0 o							
Fiji	4 u	2 u	3 u	3 u	1 u	0 e	0 e	0 e	1 o
Fr Polynesia	0 e	0 e	0 o	0 u	0 u	0 u	0 u	0 u	0 u
Guam	0 o	1 o	1 o	1 u	1 e	1 u	1 u	1 e	1 u
Marshall Is	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 e	0 u
Micronesia			1 e	1 u	1 u	1 u	1 u	1 e	1 u
New Caledon	45 o	45 o	45 o	57 u	49 e	41 e	43 e	80 e	62 o
New Zealand	2 331 o	2 085 o	2 071 o	2 271 o	2 317 o	2 632 o	2 863 o	3 236 o	3 958 o
Samoa	0 u	0 u	0 u	0 e	0 e	0 e	0 e	0 o	0 o
Tokelau			0 u	0 u	0 u	0 u	0 u	0 e	0 u
Tonga	0 u	0 u	0 u	1 u	3 e	2 e	1 e	1 e	1 u
Vanuatu	5 u	5 u	4 u	6 u	6 e	4 e	3 e	3 e	3 u

Onshore wind energy

Énergie éolienne terrestre

Energía eólica terrestre

PROD (GWh)	2016	2017	2018	2019	2020	2021	2022	2023	2024
S America	40 848	51 621	60 025	72 873	80 209	100 952	112 687	128 420	145 591
Argentina	592 u	660 u	1 511 u	5 315 u	10 149 u	13 978 u	14 871 u	15 215 u	17 431 u
Bolivia	35 o	60 o	59 o	70 o	64 o	120 o	441 o	483 o	496 u
Brazil	33 489 e	42 373 e	48 475 u	55 986 u	57 050 u	72 286 u	81 632 u	95 801 u	107 654 u
Chile	2 449 o	3 521 o	3 588 o	4 897 o	5 602 o	7 628 o	8 893 o	9 391 o	11 024 o
Colombia	51 u	3 u	43 u	63 u	10 u	60 u	74 u	203 u	146 u
Ecuador	84 o	73 o	80 o	86 o	77 o	62 o	61 e	209 e	224 o
Falklands Malv	6 o	5 o	5 o	5 o	4 o	4 o	5 u	5 e	5 e
Guyana	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u
Paraguay					0 u	0 u	0 u	0 u	0 u
Peru	1 060 e	1 073 e	1 502 o	1 655 e	1 814 e	1 823 e	1 932 e	2 355 e	3 866 e
South Georgia	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u
Uruguay	2 986 u	3 756 u	4 718 u	4 736 u	5 418 u	4 971 u	4 763 u	4 743 u	4 728 u
Venezuela	98 u	95 u	43 u	60 u	20 u	19 u	16 u	16 e	16 e

Offshore wind energy

Énergie éolienne offshore

Energía eólica marina

CAP (MW)	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
World	14 377	18 805	23 560	28 263	34 340	54 268	62 542	74 490	82 760	91 141
Asia	1 685	3 005	4 833	6 296	9 412	27 841	32 522	40 602	45 906	52 626
China	1 480 o	2 788 u	4 588 u	5 930 o	8 990 o	26 390 o	30 460 o	37 290 o	41 270 o	47 390 o
Chinese Taipei		8 o	8 o	128 o	128 o	269 o	745 o	1 763 o	2 987 o	3 587 o
Japan	65 o	65 o	65 o	66 o	59 o	52 o	180 o	300 o	300 o	300 e
Korea Rep	41 o	46 u	73 u	73 u	136 u	136 u	143 u	146 u	246 u	246 u
Viet Nam	99 o	99 o	99 u	99 u	99 u	994 u	994 u	1 104 u	1 104 u	1 104 o
Europe	12 664	15 770	18 698	21 938	24 899	26 386	29 979	33 846	36 683	38 343
Belgium	712 o	877 o	1 186 o	1 556 o	2 262 o	2 262 o	2 262 e	2 262 u	2 262 e	2 262 u
Denmark	1 271 o	1 264 o	1 701 o	1 701 o	1 701 o	2 306 o	2 301 o	2 469 o	2 644 o	2 644 u
Finland	32 u	32 o	32 o	32 o	32 o	32 o	32 o	32 o	32 o	32 u
France	11 o	11 o	13 o	14 o	14 o	14 o	501 o	1 487 o	1 494 o	1 902 u
Germany	4 152 o	5 406 o	6 393 o	7 555 o	7 787 e	7 807 o	8 216 o	8 473 o	9 215 e	9 733 u
Ireland	25 o	25 u	25 o	25 o	25 o	25 u	25 e	25 o	25 u	25 u
Italy								31 o	31 e	31 u
Netherlands	957 o	957 o	957 o	957 o	2 460 o	2 460 o	2 570 o	4 110 o	4 748 e	4 748 u
Norway	2 u	2 o	2 u	2 u	2 u	2 u	2 o	2 u	95 o	95 u
Portugal					25 o	25 o	25 o	25 u	25 e	25 u
Spain	5 u	5 u	5 o	5 o	5 u	5 u	5 e	5 o	5 e	5 u
Sweden	203 o	203 o	203 o	203 o	203 o	193 o	193 e	193 u	193 e	193 u
UK	5 293 o	6 988 o	8 181 e	9 888 e	10 383 o	11 255 o	13 847 o	14 732 o	15 916 o	16 650 o
European Union	7 368	8 780	10 515	12 048	14 514	15 128	16 129	19 111	20 673	21 599
N America	29	29	29	29	29	41	41	41	171	171
USA	29 o	29 e	29 e	29 e	29 e	41 e	41 e	41 o	171 o	171 o

Offshore wind energy

Énergie éolienne offshore

Energía eólica marina

PROD (GWh)	2016	2017	2018	2019	2020	2021	2022	2023	2024
World	41 658	56 911	68 332	84 561	104 367	137 924	162 827	187 748	203 509
Asia	2 821	5 570	9 654	12 168	15 989	54 230	67 265	82 237	90 121
China	2 417 o	5 177 o	9 112 o	11 512 u	14 896 u	52 711 u	63 572 u	74 850 u	78 596 u
Chinese Taipei		20 e	27 u	176 u	516 u	569 u	1 495 o	4 497 o	8 611 o
Japan	105 u	104 u	104 u	106 u	95 u	84 u	293 u	487 u	487 u
Korea Rep	66 u	86 u	138 u	131 u	260 u	253 u	248 u	229 u	369 u
Viet Nam	234 e	182 e	273 u	243 u	222 u	613 u	1 658 u	2 174 u	2 058 u
Europe	38 734	51 239	58 575	72 290	88 233	83 550	95 417	104 912	112 787
Belgium	2 390 o	2 870 o	3 411 o	4 794 o	6 974 o	6 926 o	6 652 o	8 040 o	7 196 o
Denmark	4 650 o	5 180 o	4 630 o	6 198 o	6 603 o	7 593 o	8 743 o	8 573 o	9 732 o
Finland	12 o	102 o	238 o	271 o	305 o	267 o	273 o	243 o	258 o
France	28 o	29 o	27 o	32 o	30 o	31 o	662 o	1 953 o	4 089 o
Germany	12 274 o	17 675 o	19 467 o	24 744 o	27 306 o	24 374 o	25 124 o	23 887 o	26 068 o
Ireland	81 u	81 o	81 u	81 o	81 o	81 u	81 o	81 o	81 u
Italy								54 o	51 o
Netherlands	2 269 o	3 700 o	3 630 o	3 573 o	5 484 o	8 066 o	8 126 o	11 792 o	15 488 o
Norway	5 o	5 o	5 o	5 o	5 o	5 u	5 o	5 o	384 o
Portugal					51 o	51 o	78 o	79 o	86 o
Spain	11 o	11 o	11 o	11 o	11 o	11 u	11 o	6 o	1 o
Sweden	608 o	670 o	550 o	606 o	633 o	547 o	550 o	549 o	549 o
UK	16 406 u	20 916 u	26 525 u	31 975 u	40 750 o	35 597 o	45 113 o	49 650 o	48 805 o
European Union	22 324	30 318	32 045	40 309	47 478	47 947	50 299	55 257	63 599
N America	103	103	103	103	145	145	145	600	600
USA	103 u	103 u	103 u	103 u	145 u	145 u	145 u	600 u	600 u

Solar energy

Énergie solaire

Energía solar

CAP (MW)	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
World	298 507	392 343	487 846	590 120	721 222	865 921	1 057 868	1 423 988	1 883 178	2 396 709
Africa	3 035	3 778	5 640	7 196	8 396	9 492	12 030	15 571	18 375	22 194
Algeria	262	355	367	367	367	367	451	462	462	462
Angola	0	0	0	1	1	1	285	310	362	385
Benin	2	2	3	4	5	6	33	35	35	35
Botswana	3	3	4	6	6	6	6	9	66	169
Burkina Faso	3	38	54	58	59	59	90	177	206	206
Burundi	2	2	2	2	2	9	9	9	10	10
Cabo Verde	6	6	11	14	15	17	23	26	31	33
Cameroon	0	23	25	26	40	53	53	89	89	89
Cent Afr Rep	0	0	0	0	0	0	0	40	41	41
Chad	0	0	1	1	1	2	2	2	2	111
Comoros	1	1	1	1	1	3	3	3	3	9
Congo DR	5	6	8	10	14	18	22	24	29	29
Congo Rep	0	0	0	0	1	1	1	1	1	1
Cote d'Ivoire	0	1	2	4	6	8	9	39	39	39
Djibouti	0	0	0	0	0	0	0	0	0	1
Egypt	59	180	764	1 647	1 643	1 663	1 689	1 820	2 554	3 267
Eq Guinea	0	0	0	0	0	0	0	0	0	0
Eritrea	9	23	26	26	26	25	25	25	25	25
Eswatini	0	0	0	0	0	10	10	28	28	28
Ethiopia	14	12	12	12	20	21	21	21	22	22
Gabon	0	0	0	0	0	0	1	1	11	11
Gambia	1	1	1	2	2	2	2	2	25	25
Ghana	37	43	73	82	106	163	166	185	186	186
Guinea	0	0	13	14	15	15	16	17	17	17
Guinea Bissau	1	1	2	2	2	2	2	2	3	3
Kenya	31	37	92	104	110	173	267	475	551	551
Lesotho	0	0	0	1	1	1	1	29	29	29
Liberia	0	1	1	2	2	3	3	4	4	4
Libya	5	5	5	5	5	6	6	8	8	9
Madagascar	1	2	22	23	24	24	53	58	59	63
Malawi	1	2	2	2	3	63	105	105	105	105
Mali	7	10	10	11	62	93	97	97	137	137
Mauritania	35	35	87	88	88	88	89	123	157	169
Mauritius	25	29	73	100	111	116	116	140	155	155
Mayotte	13	15	16	17	19	30	30	31	31	31
Morocco	202	204	734	734	774	854	854	854	951	1 086
Mozambique	4	4	5	48	55	63	115	162	175	175
Namibia	27	67	123	187	187	190	245	240	240	389
Niger	7	7	14	14	15	15	50	83	83	83
Nigeria	21	27	31	50	75	98	131	171	233	285
Reunion	188	189	190	195	212	223	243	268	314	314
Rwanda	9	13	13	14	14	15	15	16	15	15
Sao Tome Prn	0	0	0	0	0	0	0	1	1	2
Senegal	52	93	136	162	162	230	233	233	273	290
Seychelles	2	3	4	4	7	16	17	18	19	19
Sierra Leone	1	1	1	3	4	11	17	17	16	17
Somalia	1	2	2	2	11	19	42	46	46	46
South Africa	1 902	2 205	2 505	2 806	3 705	4 205	5 705	8 006	9 058	11 255
South Sudan	1	2	2	2	4	4	4	17	31	45
Sudan	26	36	60	81	118	136	190	190	190	190
Tanzania	9	9	10	6	6	6	6	6	12	12
Togo	0	1	4	7	10	64	66	66	66	87
Tunisia	38	47	64	80	96	97	199	508	775	895
Uganda	15	26	52	65	75	76	76	96	97	96
Zambia	1	2	4	93	94	94	95	131	193	333
Zimbabwe	2	4	8	11	13	27	40	45	105	105

Solar energy

Énergie solaire

Energía solar

CAP (MW)	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Asia	140 552	211 950	276 185	331 432	412 275	488 746	600 260	841 688	1 162 067	1 534 069
Afghanistan	21	23	23	53	52	52	54	54	64	66
Bangladesh	165	217	240	280	343	506	523	746	846	1 146
Bhutan	0	0	0	0	0	0	0	1	3	21
Brunei Darism	1	1	1	1	1	5	5	5	5	6
Cambodia	18	32	43	140	333	395	481	487	972	1 482
China	77 819	130 832	175 262	204 971	253 864	306 973	393 032	609 921	887 100	1 202 179
China HK SAR		1	1	89	91	95	185	333	405	421
Chinese Taipei	1 245	1 768	2 738	4 150	5 817	7 700	9 724	12 418	14 281	15 474
India	9 982	18 257	27 485	35 250	39 705	49 979	63 479	73 052	97 576	135 502
Indonesia	88	97	68	158	166	221	306	630	941	1 494
Japan	42 040	49 500	56 162	63 192	71 868	78 413	83 057	87 068	89 601	92 211
Kazakhstan	57	59	209	542	912	1 038	1 146	1 205	1 229	1 325
Korea DPR	32	36	50	65	79	102	116	129	143	156
Korea Rep	4 703	6 061	8 112	11 036	14 665	17 586	20 130	23 025	30 373	34 039
Kyrgyzstan								0	0	100
Lao PDR	3	9	34	34	44	58	58	58	58	1 058
Malaysia	287	331	481	829	1 483	1 583	2 131	2 417	3 074	3 074
Maldives	7	11	16	29	39	40	52	55	69	75
Mongolia	24	56	73	98	103	103	103	108	143	189
Myanmar	32	44	48	88	84	110	181	181	216	240
Nepal	14	55	56	55	65	90	112	115	171	213
Pakistan	589	654	679	755	1 049	1 434	2 182	3 210	3 717	3 717
Philippines	791	915	930	1 002	1 083	1 406	1 660	1 801	2 990	3 888
Singapore	100	121	169	282	344	502	658	957	1 269	1 456
Sri Lanka	71	154	228	350	436	624	800	958	1 579	2 507
Tajikistan					0	0	0	0	0	0
Thailand	2 452	2 703	2 968	2 988	2 984	3 065	3 185	3 299	3 388	6 842
Timor Leste	1	1	1	1	0	0	0	0	0	1
Turkmenistan									0	0
Uzbekistan	2	3	4	4	4	4	204	867	3 188	5 934
Viet Nam	5	8	105	4 993	16 660	16 660	16 697	18 587	18 666	19 252
C America + Carib	1 197	1 559	1 942	2 533	2 815	3 542	3 954	4 851	5 605	7 340
Anguilla	2	2	1	2	2	2	2	2	2	2
Antigua Barb	4	4	9	9	13	15	15	16	16	16
Aruba	7	7	15	15	15	15	15	15	15	15
Bahamas	3	3	3	5	5	10	15	15	21	21
Barbados	15	16	17	33	49	64	69	69	69	69
Belize	1	1	1	7	7	7	7	7	7	7
BES Islands	2	5	6	7	7	7	7	16	22	24
Br Virgin Is	1	1	1	1	1	1	2	3	3	4
Cayman Is	3	9	10	11	13	14	14	14	14	14
Costa Rica	13	19	32	47	56	73	73	73	73	83
Cuba	31	70	124	152	214	246	267	280	392	567
Curacao	11	11	12	12	13	13	13	13	14	14
Dominica	1	1	0	0	0	0	0	1	1	1
Dominican Rep	71	95	191	335	386	584	735	1 077	1 423	2 083
El Salvador	12	110	167	410	479	543	571	647	739	739
Grenada	2	2	3	3	4	4	4	4	4	4
Guadeloupe	70	70	72	83	88	90	93	95	95	105
Guatemala	85	93	93	93	94	94	97	102	102	102
Haiti	2	3	3	3	3	3	3	4	4	8
Honduras	412	455	515	518	525	529	529	529	554	589
Jamaica	28	56	56	107	107	108	110	113	117	117
Martinique	67	68	71	76	77	89	96	104	115	122
Montserrat				0	0	1	1	1	1	1
Nicaragua	1	14	14	16	16	16	17	18	42	111
Panama	89	127	199	225	235	498	529	646	743	973
Puerto Rico	244	302	305	337	381	488	639	955	963	1 362
St Barth	0	0	0	0	0	0	0	0	1	1
St Kitts Nevis	2	2	2	2	3	3	3	3	5	5
St Lucia	1	1	4	4	4	4	4	4	5	6
St Maarten							0	0	0	0
St Martin	2	0	0	1	1	1	2	2	2	17
St Vincent Gren	3	3	3	4	4	4	4	6	6	6
Trinidad Tobago	4	4	4	4	4	4	4	4	5	97
Turks Caicos	0	0	0	1	1	3	3	4	4	4
US Virgin Is	9	5	10	10	10	10	10	10	30	53
Eurasia	1 293	3 991	5 945	7 478	8 533	10 018	11 896	18 261	23 400	29 206
Armenia	1	2	17	21	51	146	235	402	485	706
Azerbaijan	25	28	35	33	35	48	51	282	281	281
Georgia	0	0	1	3	5	18	35	64	139	317
Russian Fed	433	538	828	1 425	1 774	1 988	2 148	1 899	2 262	2 433
Türkiye	834	3 422	5 064	5 996	6 668	7 817	9 426	15 614	20 233	25 469

Solar energy

Énergie solaire

Energía solar

CAP (MW)	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Europe	105 559	111 076	120 511	141 073	161 546	190 226	224 874	283 604	346 269	408 868
Albania	1	1	1	14	21	23	100	207	720	876
Andorra	0	0	0	1	1	1	2	5	7	10
Austria	1 103	1 276	1 462	1 710	2 051	2 791	3 800	6 394	8 904	10 304
Belarus	47	80	154	154	160	164	273	273	265	277
Belgium	3 291	3 600	3 963	4 523	5 453	5 933	6 780	8 360	9 642	10 398
Bosnia Herzg	14	16	18	22	35	57	102	212	608	914
Bulgaria	1 030	1 031	1 033	1 044	1 100	1 275	1 737	2 927	4 560	5 910
Croatia	56	60	68	85	109	138	222	463	902	1 319
Cyprus	84	110	118	151	229	315	424	581	751	861
Czechia	2 055	2 062	2 068	2 085	2 124	2 177	2 404	3 239	3 984	4 541
Denmark	851	906	998	1 080	1 304	1 704	3 070	3 529	3 945	5 046
Estonia	10	15	32	121	208	395	520	813	877	984
Faroe Islands				0	0	0	0	0	0	1
Finland	37	77	133	210	299	398	649	986	1 219	1 566
France	7 319	7 656	8 864	9 961	11 290	14 391	16 990	20 322	25 673	31 443
Germany	40 679	42 293	45 158	48 914	53 671	60 038	61 188	75 519	91 204	107 192
Greece	2 604	2 552	2 591	2 754	3 174	4 073	5 104	6 689	8 827	11 077
Hungary	235	344	728	1 400	2 131	2 968	4 235	5 910	7 166	8 177
Iceland	4	4	5	7	7	7	7	7	7	7
Ireland	12	30	56	102	163	247	362	919	1 489	2 494
Italy	19 116	19 504	19 916	20 625	21 359	22 286	24 560	29 356	35 442	41 188
Kosovo*	1	7	7	10	10	14	14	14	24	25
Latvia	2	1	2	3	5	7	113	319	660	922
Lithuania	68	75	89	130	244	422	738	1 330	2 575	3 295
Luxembourg	122	128	131	160	187	277	317	394	548	774
Malta	92	109	129	151	180	194	210	226	238	250
Moldova Rep	2	2	3	5	4	14	60	201	400	711
Montenegro					3	3	3	17	64	100
Netherlands	2 135	2 911	4 608	7 228	11 110	14 823	17 356	21 957	24 772	25 878
North Macedonia	17	17	17	17	30	45	144	548	869	1 058
Norway	27	45	84	137	143	185	341	634	786	903
Poland	176	270	526	1 428	3 656	7 091	11 063	15 917	21 721	25 421
Portugal	533	619	717	970	1 191	1 817	2 817	4 040	5 811	6 949
Romania	1 372	1 374	1 386	1 398	1 383	1 394	1 809	2 988	4 258	6 238
Serbia	17	18	21	23	31	52	137	197	296	431
Slovakia	533	528	471	590	535	537	549	594	728	1 028
Slovenia	233	247	247	278	370	461	626	1 031	1 421	1 568
Spain	7 044	7 053	7 101	11 146	12 475	16 056	26 238	31 920	38 164	47 206
Sweden	153	244	428	730	1 124	1 625	2 407	4 012	4 848	5 500
Switzerland	1 617	1 860	2 117	2 425	2 875	3 515	4 528	6 064	7 445	8 795
UK	11 914	12 751	13 059	13 345	13 772	14 251	14 813	16 428	18 953	21 736
Ukraine	955	1 200	2 003	5 936	7 331	8 062	8 062	8 062	5 500	5 500
European Union	90 943	95 075	103 023	118 977	137 123	163 833	196 289	250 736	310 327	367 526
Middle East	1 623	2 251	3 537	6 079	8 110	10 278	14 455	20 807	26 360	39 057
Bahrain	6	6	6	10	10	21	46	57	66	112
Iran IR	43	184	286	346	430	456	539	595	782	1 782
Iraq	37	37	37	37	37	37	42	42	42	64
Israel	906	1 006	1 346	2 138	2 652	3 591	4 632	5 516	5 605	7 363
Jordan	311	418	760	971	1 541	1 811	1 966	1 990	2 195	2 195
Kuwait	22	23	34	84	84	84	102	102	102	102
Lebanon	24	37	56	78	92	206	869	1 081	1 081	1 505
Oman	2	8	26	26	129	155	655	672	672	1 672
Palestine	26	36	41	83	119	179	193	260	303	308
Qatar	5	5	5	5	5	5	805	805	805	1 680
Saudi Arabia	24	34	84	109	409	439	440	2 440	6 201	11 932
Syrian AR		0	1	2	12	33	307	1 022	1 606	2 249
United Arab Em	135	353	600	1 935	2 333	3 002	3 596	5 942	6 498	7 637
Yemen	81	103	253	254	258	258	264	283	403	456
N America	37 587	46 680	56 971	69 902	86 019	107 567	126 520	155 878	194 126	229 192
Canada	2 265	2 493	2 631	2 828	3 068	3 854	4 322	5 041	5 290	5 403
Greenland			0	0	0	1	1	1	1	1
Mexico	606	1 072	2 770	6 247	7 158	8 927	9 356	10 910	11 992	12 929
USA	34 716	43 115	51 570	60 827	75 793	94 786	112 842	139 927	176 843	210 859

Solar energy

Énergie solaire

Energía solar

CAP (MW)	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Oceania	6 062	7 467	11 421	15 822	20 202	24 930	29 606	34 040	38 457	43 803
Amer Samoa	4	4	5	5	5	5	7	7	7	7
Australia	5 881	7 241	11 128	15 453	19 773	24 397	28 887	33 182	37 373	42 443
Cook Is	3	3	5	6	6	6	6	6	6	6
Fiji	6	8	9	9	9	9	10	11	12	12
Fr Polynesia	32	35	38	41	45	46	52	53	81	81
Guam	35	36	38	40	41	43	105	105	105	105
Kiribati	2	2	2	2	2	2	2	4	4	4
Marshall Is	2	2	2	2	2	2	2	2	3	3
Micronesia	4	4	5	5	7	7	7	7	7	7
Nauru	1	1	1	2	2	3	3	3	3	9
New Caledon	10	27	60	104	125	175	210	215	215	219
New Zealand	53	71	91	115	145	192	263	375	568	826
Niue	0	0	0	1	1	1	1	1	2	2
Palau	2	2	3	3	3	4	4	20	20	23
Papua N Guin	1	1	1	2	2	4	4	4	5	6
Samoa	14	14	16	16	16	16	16	16	16	16
Solomon Is	2	3	3	2	2	2	4	6	6	8
Tokelau	1	1	1	1	1	1	1	1	1	1
Tonga	5	7	7	7	7	7	14	15	16	16
Tuvalu	4	4	4	4	4	4	4	4	5	5
Vanuatu	2	3	4	5	5	5	5	5	5	5
S America	1 599	3 591	5 693	8 605	13 326	21 121	34 272	49 287	68 518	82 981
Argentina	14	14	196	446	768	1 077	1 113	1 405	1 741	2 592
Bolivia	6	11	70	71	121	171	172	173	177	194
Brazil	135	1 206	2 454	4 666	8 382	14 307	25 066	37 561	53 111	64 690
Chile	1 125	1 724	2 298	2 721	3 287	4 712	6 887	8 739	11 016	12 141
Colombia	2	11	13	23	74	153	307	533	1 417	1 726
Ecuador	27	27	28	28	28	28	29	30	84	131
Falklands Malv	0	0	0	0	0	0	0	0	0	0
Fr Guiana	46	46	46	46	56	57	59	65	68	69
Guyana	2	3	6	7	7	7	13	18	22	39
Paraguay	0	0	0	0	0	0	1	1	1	3
Peru	146	298	324	335	335	332	332	447	528	1 016
Suriname	5	5	6	6	6	7	10	11	13	36
Uruguay	89	243	248	254	258	267	280	301	336	339
Venezuela	3	3	3	3	3	3	3	3	4	5

Solar energy

Énergie solaire

Energía solar

PROD (GWh)	2016	2017	2018	2019	2020	2021	2022	2023	2024
World	325 349	435 394	561 799	693 572	845 258	1 041 329	1 305 562	1 637 083	2 105 792
Africa	5 187	6 470	8 555	11 648	16 518	19 073	22 399	26 858	29 409
Algeria	374	428	690	713	818	795	836	889	889
Angola	0	1	1	2	2	2	405	441	514
Benin	4	4	4	6	7	9	46	49	49
Botswana	5	5	6	6	6	6	6	6	6
Burkina Faso	5	15	85	91	90	93	93	195	358
Burundi	2	3	3	3	3	12	15	15	55
Cabo Verde	6	7	11	11	9	9	9	10	6
Cameroon	0	16	16	17	19	36	36	117	117
Cent Afr Rep	0	0	0	0	0	0	0	57	58
Chad	0	0	1	1	2	3	3	3	3
Comoros	1	2	2	2	2	5	4	4	4
Congo DR	6	7	11	12	17	22	26	28	32
Congo Rep	0	0	0	0	1	1	1	1	1
Cote d'Ivoire	1	1	3	6	8	10	12	36	63
Djibouti	1	1	1	1	1	1	1	1	1
Egypt	194	603	553	1 489	4 453	4 971	4 974	5 599	5 815
Eq Guinea	0	0	0	0	0	0	0	0	0
Eritrea	17	45	49	50	50	48	47	47	47
Eswatini	0	0	0	0	0	17	21	48	48
Ethiopia	21	22	20	20	32	34	34	34	34
Gabon	0	0	0	0	0	1	1	1	1
Gambia	2	2	2	3	3	3	3	3	3
Ghana	48	57	75	107	122	193	237	227	260
Guinea	0	1	20	22	23	23	25	26	26
Guinea Bissau	1	2	3	3	3	3	3	3	3
Kenya	46	53	61	79	90	355	501	788	907
Lesotho	1	1	1	1	1	1	1	1	1
Liberia	1	1	2	2	3	3	4	4	4
Libya	8	8	8	8	8	8	8	8	8
Madagascar	2	3	36	38	40	40	88	96	98
Malawi	2	3	3	3	5	5	6	6	6
Mali	11	15	17	15	76	144	143	144	145
Mauritania	61	61	148	149	145	145	119	123	126
Mauritius	30	39	49	129	146	151	155	149	178
Mayotte	15	17	17	25	27	44	44	46	46
Morocco	427	445	980	1 609	1 547	1 848	1 475	641	614
Mozambique	4	6	17	40	64	100	114	163	211
Namibia	32	63	201	325	372	393	477	508	504
Niger	11	11	13	24	24	24	78	130	83
Nigeria	31	40	46	74	111	155	188	232	268
Reunion	286	257	253	262	258	270	269	295	313
Rwanda	15	16	18	20	21	21	21	20	22
Sao Tome Prn	0	0	0	0	0	0	0	1	1
Senegal	4	90	224	263	293	386	429	429	427
Seychelles	2	3	4	5	6	18	19	19	21
Sierra Leone	1	1	2	4	6	16	23	24	23
Somalia	2	3	4	4	17	30	66	72	79
South Africa	3 373	3 869	4 547	5 407	6 979	7 844	10 282	13 910	15 431
South Sudan	2	3	3	4	15	21	39	34	34
Sudan	18	20	20	22	28	28	126	126	126
Tanzania	15	15	17	10	11	10	9	10	21
Togo	0	1	9	12	16	74	104	101	137
Tunisia	67	137	178	258	165	231	336	467	607
Uganda	25	60	106	172	195	208	215	241	240
Zambia	2	3	6	105	159	157	154	159	142
Zimbabwe	4	4	11	16	20	46	66	76	193

Solar energy

Énergie solaire

Energía solar

PROD (GWh)	2016	2017	2018	2019	2020	2021	2022	2023	2024
Asia	136 773	209 164	293 672	372 331	445 737	556 181	693 963	886 525	1 183 266
Afghanistan	35	38	38	57	65	76	90	117	121
Bangladesh	220	292	315	376	462	614	867	1 181	1 460
Bhutan	0	0	0	0	0	0	0	1	4
Brunei Darism	1	2	2	1	1	4	4	4	5
Cambodia	27	37	63	144	342	666	759	896	1 280
China	67 874	118 267	178 071	224 542	261 639	327 551	428 163	583 875	839 587
China HK SAR	4	6	6	16	52	120	210	210	210
Chinese Taipei	1 109	1 667	2 704	4 017	6 075	7 970	10 675	12 910	15 296
India	10 186	18 135	31 106	43 933	55 099	66 277	83 750	108 754	128 241
Indonesia	105	115	91	118	171	193	444	713	1 351
Japan	45 761	55 068	62 668	69 381	79 087	86 080	92 603	96 459	98 129
Kazakhstan	88	93	141	563	1 350	1 641	1 755	1 873	1 890
Korea DPR	42	47	64	84	102	132	149	167	184
Korea Rep	5 516	7 738	10 155	14 163	19 298	24 717	30 727	33 246	37 137
Lao PDR	4	12	20	45	65	67	96	96	96
Malaysia	363	427	662	1 487	2 089	2 625	3 422	4 413	6 380
Maldives	11	16	25	44	59	60	78	83	103
Mongolia	8	27	59	117	117	165	186	201	173
Myanmar	47	64	84	152	144	127	324	377	481
Nepal	19	76	81	84	82	86	107	117	134
Pakistan	716	984	1 023	1 056	1 479	2 068	3 005	4 485	4 287
Philippines	1 107	1 214	1 270	1 282	1 421	1 532	1 917	2 676	3 999
Singapore	88	125	138	195	318	391	685	918	1 252
Sri Lanka	45	152	224	341	464	640	844	998	1 329
Thailand	3 385	4 547	4 547	5 146	5 040	5 017	5 005	5 439	9 112
Timor Leste	2	1	1	0	0	0	0	0	0
Turkmenistan								0	0
Uzbekistan	5	6	7	0	0	49	436	622	3 965
Viet Nam	5	8	105	4 987	10 717	27 314	27 660	25 696	27 059
C America + Carib	1 910	2 374	2 923	3 906	4 671	6 148	6 274	7 252	8 153
Anguilla	2	2	2	3	4	4	4	4	4
Antigua Barb	5	6	10	14	17	22	23	24	25
Aruba	12	13	19	26	26	26	26	26	26
Bahamas	4	4	4	6	8	12	20	24	28
Barbados	13	29	31	44	69	85	108	112	120
Belize	0	1	1	10	10	7	8	9	9
BES Islands	3	4	8	9	8	9	8	9	9
Br Virgin Is	1	2	2	2	2	2	2	2	3
Cayman Is	2	9	15	17	20	22	22	23	22
Costa Rica	20	23	49	71	83	107	106	107	124
Cuba	39	61	126	193	206	219	211	190	173
Curacao	18	19	20	20	22	14	14	14	9
Dominica	0	0	0	0	0	0	0	0	1
Dominican Rep	93	164	259	372	597	850	1 238	1 725	2 102
El Salvador	25	165	315	576	986	1 691	1 243	1 200	1 307
Grenada	2	3	3	4	4	4	4	4	4
Guadeloupe	94	93	98	103	107	114	114	112	115
Guatemala	192	199	209	234	222	230	221	247	253
Haiti	3	4	5	5	5	5	4	4	5
Honduras	889	929	999	1 127	1 067	1 088	975	1 022	1 046
Jamaica	15	44	46	90	125	132	132	134	128
Martinique	83	76	82	85	84	92	93	108	113
Montserrat					0	2	2	2	2
Nicaragua	2	14	24	26	24	27	26	31	58
Panama	71	143	251	335	371	657	775	877	1 020
Puerto Rico	291	345	312	498	563	679	846	1 189	1 395
St Barth	0	0	0	0	0	0	0	0	0
St Kitts Nevis	3	3	3	3	5	5	5	5	5
St Lucia	1	1	6	8	8	8	8	8	8
St Martin	3	0	0	0	1	1	2	2	2
St Vincent Gren	1	1	2	3	5	7	7	7	7
Trinidad Tobago	6	6	6	6	6	6	6	6	6
Turks Caicos	0	0	1	1	1	4	5	5	6
US Virgin Is	13	7	14	14	14	17	18	19	18
Eurasia	1 161	3 149	8 244	10 265	12 746	16 074	20 620	26 307	35 786
Armenia	0	0	19	24	57	164	524	733	979
Azerbaijan	35	37	39	44	47	55	61	79	556
Georgia	0	1	1	3	6	23	45	1	1
Russian Fed	79	219	381	940	1 683	1 886	3 100	3 400	3 500
Türkiye	1 046	2 892	7 803	9 253	10 953	13 946	16 891	22 094	30 749

Solar energy

Énergie solaire

Energía solar

PROD (GWh)	2016	2017	2018	2019	2020	2021	2022	2023	2024
Europe	113 905	121 802	129 932	142 337	167 624	187 849	237 122	283 871	341 326
Albania	1	1	1	22	32	41	161	297	784
Andorra	0	1	1	1	1	1	2	4	6
Austria	1 096	1 269	1 455	1 702	2 043	2 783	3 792	6 889	8 143
Belarus	28	89	177	181	176	174	209	157	220
Belgium	3 095	3 308	3 904	4 252	5 113	5 623	6 881	7 835	8 562
Bosnia Herzg	47	21	21	30	45	72	114	253	601
Bulgaria	1 388	1 403	1 343	1 417	1 469	1 467	2 094	3 521	5 489
Croatia	66	79	75	83	96	149	152	413	820
Cyprus	146	172	199	218	296	468	602	831	1 108
Czechia	2 131	2 199	2 365	2 316	2 294	2 250	2 626	2 892	3 593
Denmark	744	751	953	963	1 181	1 309	2 385	3 658	3 776
Estonia	10	14	31	74	245	354	596	721	1 065
Faroe Islands					0	0	0	0	0
Finland	22	49	90	147	218	298	392	716	940
France	8 660	8 868	11 151	12 040	13 120	15 358	19 519	22 900	25 533
Germany	38 098	39 401	43 459	44 383	49 496	50 472	61 022	64 299	75 379
Greece	3 930	3 991	3 791	4 429	4 447	5 251	7 140	8 894	11 258
Hungary	244	349	629	1 497	2 459	3 796	4 732	6 925	9 200
Iceland	3	3	4	5	5	5	5	5	5
Ireland	5	10	18	34	55	85	149	646	1 093
Italy	22 117	24 390	22 666	23 701	24 954	25 051	28 134	30 724	36 006
Kosovo*	0	1	2	11	10	16	14	9	13
Latvia	0	0	1	3	5	7	75	239	536
Lithuania	66	68	87	91	129	191	342	688	1 397
Luxembourg	100	108	119	130	161	180	276	294	360
Malta	128	162	190	195	237	256	289	309	327
Moldova Rep	2	2	1	1	3	8	30	75	213
Montenegro					2	3	3	17	64
Netherlands	1 602	2 204	3 708	5 399	8 567	11 304	16 657	19 607	21 822
North Macedonia	24	24	23	23	24	51	370	370	889
Norway	24	40	74	122	98	125	189	374	551
Poland	124	165	300	711	1 958	3 934	8 310	11 107	17 663
Portugal	871	992	1 006	1 342	1 716	2 237	3 519	5 160	7 088
Romania	1 820	1 856	1 771	1 778	1 733	1 703	1 988	2 227	3 423
Serbia	19	23	24	28	35	59	148	178	294
Slovakia	533	506	585	589	663	671	650	605	694
Slovenia	267	284	255	303	368	453	646	984	1 268
Spain	13 671	14 426	12 780	15 142	20 706	27 138	35 764	48 628	58 340
Sweden	143	230	407	679	1 051	1 526	1 980	3 114	4 163
Switzerland	1 346	1 700	1 965	2 200	2 719	2 994	4 109	4 964	6 021
UK	10 395	11 457	12 668	12 418	12 552	12 133	13 978	14 632	14 364
Ukraine	940	1 183	1 632	3 675	7 141	7 854	7 350	7 707	8 252
European Union	101 076	107 257	113 338	123 620	144 778	164 314	210 711	254 826	309 047
Middle East	2 802	3 886	6 021	10 883	14 969	18 971	25 014	40 245	49 264
Bahrain	11	11	11	18	18	39	83	92	115
Iran IR	5	86	222	510	584	620	736	922	922
Iraq	57	57	377	377	377	377	377	377	377
Israel	1 636	1 643	1 828	3 115	4 163	5 350	6 083	8 562	10 223
Jordan	428	895	1 416	2 087	2 853	3 508	4 351	4 564	4 781
Kuwait	49	51	53	59	56	143	179	114	114
Lebanon	36	56	85	112	133	309	1 262	1 550	1 550
Oman	4	16	49	51	56	684	1 555	2 057	2 157
Palestine	44	46	62	125	181	230	348	428	436
Qatar	8	8	8	8	8	8	594	1 882	1 882
Saudi Arabia	46	65	214	261	829	886	1 081	4 671	11 787
Syrian AR		0	2	4	20	58	102	102	127
United Arab Em	322	750	1 204	3 663	5 193	6 261	7 753	14 414	14 284
Yemen	156	200	491	492	499	499	511	510	509
N America	53 848	74 686	91 920	111 294	139 392	176 841	213 359	247 800	309 148
Canada	3 005	3 308	3 491	3 752	4 072	5 115	5 737	6 691	7 021
Greenland			0	0	0	1	1	1	1
Mexico	509	398	3 244	10 064	15 990	20 403	20 550	23 575	24 120
USA	50 334	70 980	85 184	97 478	119 329	151 323	187 071	217 533	278 007

Solar energy

Énergie solaire

Energía solar

PROD (GWh)	2016	2017	2018	2019	2020	2021	2022	2023	2024
Oceania	6 444	8 356	10 283	15 311	21 570	28 347	35 495	42 435	49 833
Amer Samoa	6	8	8	7	7	6	4	4	3
Australia	6 209	8 071	9 929	14 849	21 034	27 717	34 687	41 442	48 601
Cook Is	5	6	10	10	9	7	7	9	7
Fiji	8	11	12	12	12	12	13	14	16
Fr Polynesia	37	39	41	43	45	48	51	57	71
Guam	66	63	74	77	80	83	141	141	141
Kiribati	2	3	3	3	3	3	3	7	7
Marshall Is	1	2	2	2	2	2	2	3	4
Micronesia	5	5	6	7	10	10	10	10	10
Nauru	0	1	1	2	3	5	5	5	5
New Caledon	11	28	47	116	150	188	226	285	283
New Zealand	57	77	101	128	161	211	286	375	601
Niue	0	0	0	0	0	0	0	0	0
Palau	3	3	4	4	4	6	6	29	29
Papua N Guin	2	2	2	4	5	5	6	6	6
Samoa	16	21	22	24	23	23	22	20	19
Solomon Is	2	3	3	3	3	3	6	7	8
Tokelau	2	2	2	2	2	2	2	2	2
Tonga	5	6	7	8	8	7	9	11	11
Tuvalu	2	2	2	2	2	2	2	2	2
Vanuatu	3	4	6	8	8	7	7	7	7
S America	3 319	5 507	10 249	15 596	22 031	31 844	51 317	75 790	99 608
Argentina	24	26	123	860	1 464	2 402	3 137	3 516	4 413
Bolivia	6	7	127	188	250	351	351	371	362
Brazil	92	838	3 468	6 661	10 755	16 759	30 133	50 640	70 671
Chile	2 639	3 914	5 217	6 420	7 972	10 567	15 715	18 439	18 930
Colombia	2	7	14	138	202	341	524	1 230	3 254
Ecuador	39	37	38	38	38	37	39	41	39
Falklands Malv	0	0	0	0	0	0	0	0	0
Fr Guiana	52	52	51	51	55	56	48	61	67
Guyana	3	4	7	9	11	11	14	23	29
Paraguay	0	0	0	0	0	0	1	2	2
Peru	306	361	797	823	839	861	880	1 016	1 371
Suriname	7	7	8	8	9	10	12	15	17
Uruguay	144	247	393	395	431	444	456	431	446
Venezuela	6	6	6	6	6	6	6	6	7

Solar photovoltaic

Photovoltaïque solaire

Fotovoltaica solar

CAP (MW)	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
World	293 537	387 273	482 035	583 752	714 816	859 555	1 051 304	1 417 124	1 875 683	2 388 375
Africa	2 610	3 253	4 655	6 111	7 311	8 407	10 945	14 486	17 190	21 009
Algeria	237 u	330 u	342 u	342 u	342 u	342 u	426 u	437 u	437 e	437 u
Angola	0 u	0 u	0 u	1 u	1 u	1 u	285 u	310 u	362 u	385 u
Benin	2 u	2 u	3 u	4 u	5 u	6 u	33 u	35 e	35 e	35 e
Botswana	3 u	3 u	4 u	6 u	6 u	6 u	6 u	9 e	66 e	169 e
Burkina Faso	3 u	38 u	54 u	58 u	59 u	59 u	90 u	177 u	206 e	206 e
Burundi	2 u	2 u	2 u	2 u	2 u	9 u	9 u	9 e	10 e	10 u
Cabo Verde	6 o	6 o	11 o	14 o	15 o	17 o	23 o	26 o	31 u	33 u
Cameroon	0 e	23 e	25 e	26 e	40 e	53 e	53 e	89 e	89 e	89 u
Cent Afr Rep	0 e	0 e	0 e	0 e	0 e	0 e	0 e	40 e	41 e	41 e
Chad	0 e	0 e	1 e	1 e	1 e	2 e	2 e	2 e	2 e	111 e
Comoros	1 e	1 e	1 e	1 e	1 e	3 e	3 e	3 e	3 e	9 e
Congo DR	5 e	6 e	8 e	10 e	14 e	18 e	22 e	24 e	29 e	29 e
Congo Rep	0 e	0 e	0 e	0 e	1 e	1 e	1 e	1 e	1 e	1 e
Cote d Ivoire	0 e	1 e	2 e	4 e	6 e	8 e	9 e	39 e	39 e	39 e
Djibouti	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 e	1 u
Egypt	39 o	160 o	744 o	1 627 o	1 623 e	1 643 e	1 669 e	1 800 e	2 534 e	3 247 o
Eq Guinea	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e
Eritrea	9 e	23 e	26 e	26 e	26 e	25 e	25 e	25 e	25 e	25 e
Eswatini	0 u	0 e	0 e	0 e	0 e	10 e	10 e	28 e	28 e	28 e
Ethiopia	14 o	12 o	12 o	12 o	20 o	21 o	21 u	21 u	22 u	22 u
Gabon	0 e	0 e	0 e	0 e	0 e	0 e	1 e	1 e	11 e	11 e
Gambia	1 e	1 e	1 e	2 e	2 e	2 e	2 e	2 e	25 e	25 e
Ghana	37 e	43 e	73 e	82 e	106 e	163 e	166 e	185 e	186 e	186 e
Guinea	0 e	0 e	13 e	14 e	15 e	15 e	16 e	17 e	17 e	17 u
Guinea Bissau	1 e	1 e	2 e	2 e	2 e	2 e	2 e	2 e	3 e	3 u
Kenya	31 e	37 e	92 e	104 e	110 e	173 e	267 e	475 e	551 e	551 e
Lesotho	0 e	0 e	0 e	1 e	1 e	1 e	1 e	29 e	29 e	29 e
Liberia	0 e	1 e	1 e	2 e	2 e	3 e	3 e	4 e	4 e	4 u
Libya	5 u	5 u	5 u	5 u	5 u	6 e	6 u	8 u	8 e	9 u
Madagascar	1 e	2 e	22 e	23 e	24 e	24 e	53 e	58 e	59 e	63 e
Malawi	1 e	2 e	2 e	2 e	3 e	63 e	105 e	105 e	105 e	105 e
Mali	7 e	10 e	10 e	11 e	62 e	93 e	97 e	97 e	137 e	137 e
Mauritania	35 o	35 o	87 u	88 u	88 u	88 u	89 u	123 u	157 e	169 u
Mauritius	25 o	29 o	73 o	100 o	111 o	116 o	116 o	140 o	155 o	155 o
Mayotte	13 o	15 o	16 o	17 o	19 o	30 o	30 o	31 u	31 u	31 u
Morocco	22 o	24 o	194 e	194 e	234 e	314 e	314 u	314 u	411 e	546 e
Mozambique	4 e	4 e	5 e	48 e	55 e	63 e	115 e	162 e	175 e	175 e
Namibia	27 e	67 e	123 e	187 e	187 e	190 e	245 e	240 e	240 e	389 e
Niger	7 e	7 e	14 e	14 e	15 e	15 e	50 e	83 e	83 e	83 e
Nigeria	21 e	27 e	31 e	50 e	75 e	98 e	131 e	171 e	233 e	285 e
Reunion	188 e	189 e	190 e	195 e	212 e	223 e	243 e	268 e	314 e	314 e
Rwanda	9 e	13 e	13 e	14 e	14 e	15 e	15 e	16 e	15 e	15 u
Sao Tome Prn	0 e	0 e	0 e	0 e	0 e	0 e	0 e	1 e	1 e	2 e
Senegal	52 e	93 e	136 e	162 e	162 e	230 e	233 e	233 e	273 e	290 e
Seychelles	2 e	3 e	4 e	4 e	7 e	16 e	17 e	18 e	19 e	19 e
Sierra Leone	1 e	1 e	1 e	3 e	4 e	11 e	17 e	17 e	16 e	17 e
Somalia	1 u	2 u	2 u	2 u	11 u	19 u	42 u	46 u	46 e	46 u
South Africa	1 702 e	1 905 e	2 105 e	2 306 e	3 205 e	3 705 e	5 205 e	7 506 e	8 458 e	10 655 e
South Sudan	1 u	2 u	2 u	2 u	4 u	4 u	4 u	17 u	31 u	45 u
Sudan	26 u	36 u	60 u	81 u	118 u	136 u	190 u	190 u	190 u	190 u
Tanzania	9 e	9 e	10 e	6 e	6 e	6 e	6 e	6 e	12 e	12 e
Togo	0 e	1 e	4 e	7 e	10 e	64 e	66 e	66 e	66 e	87 e
Tunisia	38 u	47 u	64 u	80 u	96 u	97 u	199 u	508 u	775 e	895 u
Uganda	15 e	26 e	52 e	65 e	75 e	76 e	76 e	96 e	97 e	96 e
Zambia	1 e	2 e	4 e	93 e	94 e	94 e	95 e	131 e	193 e	333 e
Zimbabwe	2 e	4 e	8 e	11 e	13 e	27 e	40 e	45 e	105 e	105 e

Solar photovoltaic

Photovoltaïque solaire

Fotovoltaica solar

CAP (MW)	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Asia	140 187	211 585	275 606	330 688	411 477	487 828	599 343	840 771	1 160 739	1 531 901
Afghanistan	21 u	23 u	23 u	53 u	52 u	52 u	54 u	54 u	64 u	66 u
Bangladesh	165 u	217 u	240 u	280 u	343 u	506 u	523 u	746 u	846 u	1 146 u
Bhutan	0 u	0 u	0 u	0 u	0 u	0 u	0 u	1 u	3 u	21 u
Brunei Darism	1 u	1 u	1 u	1 u	1 u	5 u	5 u	5 u	5 u	6 u
Cambodia	18 u	32 u	43 u	140 u	333 u	395 u	481 u	487 u	972 u	1 482 u
China	77 788 o	130 801 o	175 016 o	204 575 u	253 414 o	306 403 u	392 462 u	609 351 u	886 120 u	1 200 359 u
China HK SAR		1 e	1 e	89 e	91 e	95 e	185 u	333 u	405 e	421 u
Chinese Taipei	1 245 o	1 768 o	2 738 o	4 150 o	5 817 o	7 700 o	9 724 o	12 418 o	14 281 o	15 474 o
India	9 654 u	17 928 u	27 156 u	34 908 u	39 363 u	49 636 u	63 136 u	72 709 u	97 234 u	135 159 u
Indonesia	88 u	97 u	68 u	158 u	166 u	221 u	306 u	630 u	941 u	1 494 u
Japan	42 040 o	49 500 o	56 162 o	63 192 o	71 868 o	78 413 o	83 057 o	87 068 o	89 601 o	92 211 o
Kazakhstan	57 o	59 o	209 u	542 u	912 e	1 038 e	1 146 e	1 205 u	1 229 u	1 325 u
Korea DPR	32 u	36 u	50 u	65 u	79 u	102 u	116 u	129 u	143 u	156 u
Korea Rep	4 703 o	6 061 o	8 112 o	11 036 o	14 665 o	17 586 o	20 130 o	23 025 o	30 373 o	34 039 o
Kyrgyzstan								0 u	0 e	100 e
Lao PDR	3 e	9 e	34 e	34 e	44 e	58 e	58 e	58 e	58 u	1 058 u
Malaysia	287 e	331 e	481 e	829 e	1 483 e	1 583 e	2 131 e	2 417 e	3 074 e	3 074 e
Maldives	7 u	11 u	16 u	29 o	39 o	40 o	52 o	55 o	69 o	75 u
Mongolia	24 e	56 e	73 e	98 e	103 e	103 e	103 e	108 e	143 e	189 e
Myanmar	32 o	44 o	48 o	88 u	84 u	110 u	181 u	181 u	216 u	240 u
Nepal	14 u	55 u	56 u	55 u	65 u	90 u	112 u	115 u	171 u	213 u
Pakistan	589 e	654 e	679 e	755 e	1 049 e	1 434 e	2 182 e	3 210 e	3 717 e	3 717 e
Philippines	791 u	915 u	930 u	1 002 u	1 083 u	1 406 u	1 660 u	1 801 u	2 990 u	3 888 u
Singapore	100 o	121 o	169 o	282 o	344 o	502 o	658 o	957 o	1 269 o	1 456 o
Sri Lanka	71 u	154 u	228 u	350 u	436 u	624 u	800 u	958 u	1 579 u	2 507 u
Tajikistan					0 e	0 e	0 e	0 u	0 u	0 u
Thailand	2 447 e	2 698 e	2 963 e	2 983 e	2 979 u	3 060 u	3 180 u	3 294 u	3 383 u	6 837 u
Timor Leste	1 u	1 u	1 u	1 u	0 u	0 u	0 u	0 u	0 u	1 u
Turkmenistan									0 u	0 u
Uzbekistan	2 u	3 u	4 u	4 u	4 u	4 u	204 e	867 u	3 188 u	5 934 u
Viet Nam	5 u	8 u	105 u	4 993 u	16 660 u	16 660 u	16 697 u	18 587 u	18 666 u	19 252 u
C America + Carib	1 197	1 559	1 942	2 533	2 815	3 542	3 954	4 851	5 605	7 340
Anguilla	2 u	2 u	1 u	2 u	2 u	2 u	2 u	2 u	2 u	2 u
Antigua Barb	4 e	4 e	9 e	9 e	13 e	15 e	15 u	16 u	16 u	16 e
Aruba	7 u	7 u	15 u	15 u	15 u	15 u	15 u	15 u	15 u	15 u
Bahamas	3 u	3 u	3 u	5 u	5 u	10 u	15 u	15 u	21 u	21 u
Barbados	15 e	16 e	17 e	33 e	49 e	64 e	69 e	69 e	69 e	69 e
Belize	1 e	1 e	1 e	7 e	7 e	7 e	7 e	7 e	7 e	7 e
BES Islands	2 e	5 e	6 u	7 u	7 u	7 u	16 u	22 u	24 u	24 u
Br Virgin Is	1 o	1 o	1 o	1 o	1 u	1 u	2 u	3 u	3 u	4 u
Cayman Is	3 u	9 u	10 u	11 u	13 u	14 e	14 u	14 e	14 e	14 e
Costa Rica	13 e	19 e	32 e	47 e	56 e	73 e	73 e	73 e	73 e	83 e
Cuba	31 e	70 e	124 e	152 e	214 e	246 e	267 e	280 u	392 e	567 u
Curacao	11 u	11 u	12 u	12 u	13 u	13 u	13 u	13 u	14 u	14 o
Dominica	1 o	1 o	0 o	0 o	0 o	0 o	0 o	1 u	1 u	1 u
Dominican Rep	71 e	95 e	191 e	335 e	386 e	584 e	735 e	1 077 e	1 423 e	2 083 o
El Salvador	12 e	110 e	167 e	410 e	479 e	543 e	571 e	647 e	739 e	739 e
Grenada	2 e	2 e	3 e	3 e	4 e	4 u	4 u	4 u	4 u	4 o
Guadeloupe	70 e	70 e	72 e	83 e	88 e	90 e	93 e	95 e	95 e	105 o
Guatemala	85 e	93 e	93 e	93 e	94 e	94 e	97 e	102 e	102 e	102 e
Haiti	2 u	3 u	3 u	3 u	3 u	3 u	3 u	4 u	4 u	8 o
Honduras	412 e	455 e	515 e	518 e	525 e	529 e	529 e	529 e	554 e	589 u
Jamaica	28 e	56 e	56 e	107 e	107 u	108 u	110 u	113 u	117 u	117 u
Martinique	67 e	68 e	71 e	76 e	77 e	89 e	96 e	104 e	115 u	122 o
Montserrat				0 u	0 u	1 e	1 u	1 u	1 u	1 u
Nicaragua	1 e	14 e	14 e	16 e	16 e	16 e	17 e	18 u	42 e	111 u
Panama	89 e	127 e	199 e	225 e	235 e	498 e	529 e	646 e	743 e	973 u
Puerto Rico	244 e	302 e	305 e	337 e	381 e	488 e	639 e	955 e	963 e	1 362 e
St Barth	0 o	0 o	0 o	0 u	0 u	0 u	0 e	0 u	1 e	1 o
St Kitts Nevis	2 e	2 e	2 e	2 e	3 e	3 e	3 e	3 e	5 u	5 e
St Lucia	1 u	1 u	4 u	4 u	4 u	4 u	4 u	4 u	5 u	6 o
St Maarten							0 u	0 u	0 u	0 u
St Martin	2 e	0 e	0 e	1 e	1 e	1 e	2 e	2 e	2 e	17 o
St Vincent Gren	3 u	3 u	3 u	4 e	4 e	4 e	4 e	6 u	6 u	6 u
Trinidad Tobago	4 u	4 u	4 u	4 u	4 u	4 u	4 u	4 u	5 u	97 u
Turks Caicos	0 u	0 u	0 u	1 u	1 u	3 u	3 u	4 u	4 u	4 o
US Virgin Is	9 u	5 u	10 e	10 u	10 u	10 u	10 u	10 e	30 e	53 e
Eurasia	1 292	3 990	5 944	7 477	8 532	10 017	11 895	18 260	23 399	29 205
Armenia	1 u	2 u	17 u	21 u	51 u	146 u	235 u	402 e	485 u	706 u
Azerbaijan	25 o	28 o	35 e	33 e	35 e	48 o	51 e	282 u	281 u	281 e
Georgia	0 u	0 u	1 u	3 u	5 u	18 u	35 u	64 u	139 u	317 u
Russian Fed	433 u	538 u	828 u	1 425 u	1 774 u	1 988 u	2 148 u	1 899 u	2 262 u	2 433 u
Türkiye	833 o	3 421 o	5 063 o	5 995 o	6 667 o	7 816 o	9 425 o	15 613 o	20 232 o	25 468 u

Solar photovoltaic

Photovoltaïque solaire

Fotovoltaica solar

CAP (MW)	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Europe	103 248	108 766	118 200	138 762	159 235	187 915	222 565	281 295	343 961	406 561
Albania	1 u	1 o	1 u	14 o	21 o	23 e	100 o	207 o	720 o	876 u
Andorra	0 o	0 o	0 o	1 o	1 o	1 o	2 o	5 o	7 o	10 u
Austria	1 103 o	1 276 o	1 462 o	1 710 o	2 051 o	2 791 o	3 800 e	6 394 o	8 904 e	10 304 u
Belarus	47 o	80 o	154 o	154 o	160 o	164 u	273 e	273 u	265 u	277 u
Belgium	3 291 o	3 600 o	3 963 o	4 523 o	5 453 o	5 933 o	6 780 o	8 360 o	9 642 o	10 398 o
Bosnia Herzg	14 o	16 o	18 o	22 o	35 u	57 o	102 o	212 o	608 o	914 o
Bulgaria	1 030 o	1 031 o	1 033 o	1 044 o	1 100 o	1 275 o	1 737 o	2 927 o	4 560 o	5 910 u
Croatia	56 o	60 o	68 o	85 o	109 o	138 o	222 o	463 o	902 o	1 319 u
Cyprus	84 o	110 o	118 o	151 o	229 o	315 o	424 o	581 o	751 o	861 u
Czechia	2 055 o	2 062 e	2 068 e	2 085 o	2 124 o	2 177 o	2 404 o	3 239 o	3 984 o	4 541 u
Denmark	851 o	906 o	998 o	1 080 o	1 304 o	1 704 o	3 070 o	3 529 o	3 945 o	5 046 o
Estonia	10 o	15 o	32 o	121 o	208 o	395 o	520 o	813 o	877 o	984 o
Faroe Islands				0 e	0 e	0 e	0 e	0 u	0 e	1 u
Finland	37 o	77 o	133 o	210 o	299 o	398 o	649 o	986 o	1 219 o	1 566 u
France	7 319 o	7 656 o	8 864 o	9 961 o	11 290 e	14 391 e	16 990 e	20 322 u	25 673 e	31 443 u
Germany	40 677 o	42 291 o	45 156 o	48 912 o	53 669 o	60 036 o	61 188 o	75 519 o	91 204 o	107 192 u
Greece	2 604 o	2 552 o	2 591 o	2 754 o	3 174 o	4 073 o	5 104 o	6 689 o	8 827 o	11 077 u
Hungary	235 o	344 o	728 o	1 400 o	2 131 o	2 968 o	4 235 o	5 910 o	7 166 o	8 177 u
Iceland	4 u	4 u	5 u	7 u	7 u	7 u	7 e	7 u	7 e	7 u
Ireland	12 o	30 o	56 o	102 o	163 o	247 o	362 e	919 o	1 489 e	2 494 u
Italy	19 111 o	19 499 o	19 912 o	20 620 o	21 354 o	22 281 o	24 555 o	29 351 o	35 437 o	41 183 o
Kosovo*	2 o	7 o	7 o	10 o	10 o	14 o	14 e	14 u	24 e	25 u
Latvia	1 o	1 o	2 o	3 o	5 o	7 o	113 o	319 o	660 o	922 u
Lithuania	68 o	75 o	89 o	130 o	244 o	422 o	738 e	1 330 u	2 575 e	3 295 u
Luxembourg	122 o	128 o	131 o	160 o	187 o	277 o	317 o	394 o	548 o	774 o
Malta	92 o	109 o	129 o	151 o	180 o	194 o	210 o	226 o	238 o	250 u
Moldova Rep	2 o	2 o	3 o	5 o	4 o	14 o	60 o	201 u	400 u	711 u
Montenegro					3 o	3 o	3 o	17 o	64 o	100 u
Netherlands	2 135 e	2 911 o	4 608 o	7 228 o	11 110 o	14 823 o	17 356 o	21 957 o	24 772 o	25 878 o
North Macedonia	17 o	17 o	17 o	17 e	30 u	45 u	144 e	548 o	869 o	1 058 u
Norway	27 u	45 u	84 o	137 o	143 e	185 e	341 e	634 u	786 e	903 u
Poland	176 o	270 o	526 o	1 428 o	3 656 o	7 091 o	11 063 o	15 917 o	21 721 o	25 421 u
Portugal	533 o	619 o	717 o	970 o	1 191 o	1 817 o	2 817 e	4 040 u	5 811 e	6 949 u
Romania	1 372 o	1 374 o	1 386 o	1 398 o	1 383 o	1 394 o	1 809 o	2 988 o	4 257 o	6 237 u
Serbia	17 u	18 u	21 u	23 u	31 o	52 o	137 o	197 o	296 e	431 u
Slovakia	533 o	528 o	471 o	590 o	535 o	537 e	549 o	594 o	728 o	1 028 u
Slovenia	233 o	247 o	247 o	278 o	370 o	461 e	626 o	1 031 o	1 421 o	1 568 u
Spain	4 740 o	4 749 o	4 797 o	8 842 o	10 171 o	13 752 o	23 934 e	29 616 e	35 860 e	44 903 u
Sweden	153 o	244 o	428 o	730 o	1 124 o	1 625 o	2 407 e	4 012 u	4 848 e	5 500 u
Switzerland	1 617 u	1 860 u	2 117 u	2 425 u	2 875 o	3 515 o	4 528 o	6 064 o	7 445 o	8 795 o
UK	11 914 o	12 751 o	13 059 o	13 345 o	13 772 o	14 251 o	14 813 o	16 428 o	18 953 o	21 736 o
Ukraine	955 u	1 200 u	2 003 u	5 936 u	7 331 e	8 062 u	8 062 u	8 062 u	5 500 u	5 500 u
European Union	88 632	92 764	100 712	116 666	134 813	161 522	193 980	248 427	308 019	365 218
Middle East	1 515	2 143	3 379	5 630	7 667	9 835	13 812	19 863	25 208	37 905
Bahrain	6 o	6 o	6 o	10 o	10 o	21 o	46 o	57 o	66 o	112 e
Iran IR	43 o	184 o	286 u	346 u	430 u	456 e	539 u	595 u	782 u	1 782 e
Iraq	37 u	37 u	37 u	37 u	37 u	37 u	42 u	42 u	42 u	64 e
Israel	900 e	1 000 e	1 340 e	1 890 e	2 410 e	3 349 e	4 390 e	5 274 e	5 363 u	7 121 o
Jordan	311 e	418 e	760 e	971 e	1 541 e	1 811 e	1 966 e	1 990 u	2 195 u	2 195 u
Kuwait	21 e	21 e	32 e	33 e	33 e	33 e	50 e	50 e	50 e	50 u
Lebanon	24 e	37 e	56 e	78 e	92 e	206 e	869 e	1 081 e	1 081 e	1 505 e
Oman	2 u	8 u	26 u	26 u	129 u	155 u	655 u	672 u	672 e	1 672 e
Palestine	26 u	36 u	41 u	83 u	119 u	179 u	193 u	260 u	303 e	308 u
Qatar	5 o	5 o	5 o	5 o	5 o	5 u	805 u	805 u	805 u	1 680 u
Saudi Arabia	24 o	34 o	34 o	59 o	359 o	389 o	390 o	2 390 o	6 151 u	11 882 e
Syrian AR		0 u	1 u	2 u	12 o	33 o	307 o	1 022 u	1 606 u	2 249 o
United Arab Em	35 u	253 u	500 o	1 835 o	2 232 u	2 902 u	3 296 u	5 342 e	5 689 e	6 828 e
Yemen	81 u	103 u	253 u	254 u	258 u	258 u	264 u	283 u	403 u	456 u
N America	35 829	44 922	55 197	68 127	84 254	106 070	125 023	154 381	192 717	227 783
Canada	2 265 u	2 493 u	2 631 u	2 828 u	3 068 u	3 854 u	4 322 u	5 041 u	5 290 u	5 403 u
Greenland			0 u	0 u	0 e	1 e	1 u	1 u	1 e	1 e
Mexico	606 e	1 072 e	2 754 e	6 230 e	7 141 e	8 910 e	9 339 e	10 893 e	11 975 e	12 912 u
USA	32 958 e	41 357 u	49 812 u	59 068 u	74 046 u	93 306 u	111 362 u	138 447 u	175 451 u	209 467 o

Solar photovoltaic

Photovoltaïque solaire

Fotovoltaica solar

CAP (MW)	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Oceania	6 059	7 464	11 418	15 819	20 199	24 927	29 603	34 037	38 454	43 800
Amer Samoa	4 e	4 e	5 e	5 u	5 u	5 u	7 u	7 u	7 u	7 o
Australia	5 878 o	7 238 o	11 125 o	15 450 o	19 770 o	24 394 o	28 884 o	33 179 o	37 370 o	42 440 o
Cook Is	3 u	3 u	5 u	6 u	6 u	6 u	6 u	6 u	6 u	6 u
Fiji	6 u	8 u	9 u	9 u	9 u	9 u	10 u	11 u	12 u	12 o
Fr Polynesia	32 o	35 o	38 o	41 u	45 u	46 u	52 e	53 u	81 u	81 u
Guam	35 o	36 u	38 u	40 u	41 u	43 u	105 u	105 u	105 u	105 u
Kiribati	2 u	2 u	2 u	2 u	2 u	2 u	2 u	4 u	4 u	4 e
Marshall Is	2 u	2 u	2 u	2 u	2 u	2 u	2 u	2 u	3 u	3 u
Micronesia	4 e	4 e	5 e	5 e	7 u	7 u	7 u	7 u	7 u	7 u
Nauru	1 u	1 e	1 e	2 u	2 u	3 u	3 u	3 u	3 u	9 e
New Caledon	10 e	27 e	60 e	104 e	125 e	175 e	210 e	215 e	215 e	219 o
New Zealand	53 o	71 o	91 o	115 o	145 o	192 o	263 o	375 o	568 o	826 o
Niue	0 u	0 u	0 u	1 u	1 u	1 u	1 u	1 u	2 o	2 o
Palau	2 u	2 u	3 u	3 u	3 e	4 u	4 u	20 u	20 u	23 u
Papua N Guin	1 u	1 u	1 u	2 u	2 u	4 u	4 u	4 u	5 u	6 u
Samoa	14 e	14 u	16 u	16 u	16 u	16 u	16 u	16 u	16 u	16 u
Solomon Is	2 u	3 u	3 u	2 u	2 u	2 u	4 u	6 e	6 e	8 o
Tokelau	1 o	1 e	1 e	1 e	1 e	1 e	1 e	1 u	1 u	1 u
Tonga	5 u	7 u	7 u	7 u	7 u	7 u	14 u	15 u	16 u	16 u
Tuvalu	4 u	4 e	4 u	4 u	4 e	4 u	4 u	4 e	5 u	5 e
Vanuatu	2 u	3 u	4 u	5 u	5 e	5 e	5 e	5 u	5 u	5 u
S America	1 599	3 591	5 693	8 605	13 326	21 013	34 163	49 179	68 409	82 873
Argentina	14 e	14 e	196 e	446 e	768 e	1 077 e	1 113 e	1 405 e	1 741 u	2 592 u
Bolivia	6 e	11 e	70 u	71 u	121 e	171 e	172 e	173 u	177 u	194 u
Brazil	135 e	1 206 e	2 454 e	4 666 e	8 382 e	14 307 e	25 066 e	37 561 e	53 111 u	64 690 u
Chile	1 125 u	1 724 u	2 298 u	2 721 u	3 287 u	4 604 u	6 779 u	8 630 u	10 907 u	12 033 u
Colombia	2 o	11 o	13 o	23 e	74 e	153 o	307 o	533 o	1 417 o	1 726 o
Ecuador	27 o	27 o	28 o	28 o	28 o	28 o	29 o	30 o	84 o	131 o
Falklands Malv	0 o	0 o	0 o	0 u	0 u	0 u	0 u	0 u	0 u	0 u
Fr Guiana	46 o	46 o	46 o	46 u	56 u	57 u	59 u	65 u	68 u	69 u
Guyana	2 u	3 u	6 u	7 u	7 u	7 u	13 u	18 u	22 u	39 u
Paraguay	0 o	0 o	0 o	0 o	0 o	0 o	1 o	1 u	1 u	3 u
Peru	146 e	298 e	324 e	335 e	335 e	332 e	332 e	447 u	528 o	1 016 u
Suriname	5 u	5 u	6 u	6 u	6 u	7 u	10 u	11 u	13 u	36 u
Uruguay	89 u	243 u	248 u	254 u	258 u	267 u	280 u	301 u	336 u	339 o
Venezuela	3 u	3 u	3 u	3 u	3 u	3 u	3 u	3 u	4 u	5 u

Solar photovoltaic

Photovoltaïque solaire

Fotovoltaica solar

PROD (GWh)	2016	2017	2018	2019	2020	2021	2022	2023	2024
World	314 181	423 403	549 772	679 455	832 085	1 027 617	1 292 763	1 624 014	2 091 123
Africa	3 954	4 602	6 113	8 038	13 211	15 534	19 378	24 613	27 175
Algeria	240 u	242 u	557 u	580 u	700 u	677 u	718 u	771 u	771 e
Angola	0 e	1 e	1 e	2 e	2 e	2 e	405 e	441 e	514 e
Benin	4 e	4 e	4 e	6 e	7 e	9 e	46 e	49 e	49 e
Botswana	5 e	5 e	6 e	6 e	6 e	6 e	6 e	6 e	6 e
Burkina Faso	5 e	15 e	85 e	91 e	90 e	93 e	93 e	195 e	358 e
Burundi	2 e	3 e	3 e	3 e	3 e	12 e	15 e	15 e	55 o
Cabo Verde	6 e	7 e	11 e	11 e	9 e	9 e	9 e	10 e	6 e
Cameroon	0 e	16 e	16 e	17 e	19 e	36 e	36 e	117 e	117 e
Cent Afr Rep	0 e	0 e	0 e	0 e	0 e	0 e	0 e	57 e	58 e
Chad	0 e	0 e	1 e	1 e	2 e	3 e	3 e	3 e	3 e
Comoros	1 e	2 e	2 e	2 e	2 e	5 e	4 e	4 e	4 e
Congo DR	6 e	7 e	11 e	12 e	17 e	22 e	26 e	28 e	32 e
Congo Rep	0 e	0 e	0 e	0 e	1 e	1 e	1 e	1 e	1 e
Cote d'Ivoire	1 e	1 e	3 e	6 e	8 e	10 e	12 e	36 e	63 e
Djibouti	1 u	1 u	1 u	1 u	1 u	1 u	1 u	1 e	1 u
Egypt	26 e	22 o	69 e	756 e	4 020 e	4 492 e	4 524 u	4 849 o	5 005 e
Eq Guinea	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e
Eritrea	17 e	45 e	49 e	50 e	50 e	48 e	47 e	47 e	47 e
Eswatini	0 e	0 e	0 e	0 e	0 e	17 e	21 e	48 e	48 e
Ethiopia	21 u	22 u	20 u	20 u	32 u	34 u	34 u	34 u	34 u
Gabon	0 e	0 e	0 e	0 e	0 e	1 e	1 e	1 e	1 e
Gambia	2 e	2 e	2 e	3 e	3 e	3 e	3 e	3 e	3 e
Ghana	48 e	57 e	75 e	107 e	122 e	193 e	237 e	227 e	260 e
Guinea	0 e	1 e	20 e	22 e	23 e	23 e	25 e	26 e	26 e
Guinea Bissau	1 e	2 e	3 e	3 e	3 e	3 e	3 e	3 e	3 e
Kenya	46 e	53 e	61 e	79 e	90 e	355 e	501 e	788 e	907 e
Lesotho	1 e	1 e	1 e	1 e	1 e	1 e	1 e	1 e	1 e
Liberia	1 e	1 e	2 e	2 e	3 e	3 e	4 e	4 e	4 e
Libya	8 u	8 u	8 u	8 u	8 u	8 u	8 u	8 u	8 u
Madagascar	2 e	3 e	36 e	38 e	40 e	40 e	88 e	96 e	98 e
Malawi	2 e	3 e	3 e	3 e	5 e	5 e	6 e	6 e	6 e
Mali	11 e	15 e	17 e	15 e	76 e	144 e	143 e	144 e	145 e
Mauritania	61 u	61 u	148 u	149 u	145 u	145 u	119 u	123 u	126 u
Mauritius	30 e	39 e	49 e	129 e	146 e	151 e	155 e	149 e	178 e
Mayotte	15 e	17 e	17 e	25 e	27 e	44 e	44 e	46 e	46 e
Morocco	26 u	31 u	186 u	423 o	417 o	562 u	612 u	640 u	613 u
Mozambique	4 e	6 e	17 e	40 e	64 e	100 e	114 e	163 e	211 e
Namibia	32 e	63 e	201 e	325 e	372 e	393 e	477 e	508 e	504 e
Niger	11 e	11 e	13 e	24 e	24 e	24 e	78 e	130 e	83 e
Nigeria	31 e	40 e	46 e	74 e	111 e	155 e	188 e	232 e	268 e
Reunion	286 e	257 e	253 e	262 e	258 e	270 e	269 e	295 e	313 e
Rwanda	15 e	16 e	18 e	20 e	21 e	21 e	21 e	20 e	22 e
Sao Tome Prn	0 e	0 e	0 e	0 e	0 e	0 e	0 e	1 e	1 e
Senegal	4 e	90 e	224 e	263 e	293 e	386 e	429 e	429 e	427 e
Seychelles	2 e	3 e	4 e	5 e	6 e	18 e	19 e	19 e	21 e
Sierra Leone	1 e	1 e	2 e	4 e	6 e	16 e	23 e	24 e	23 e
Somalia	2 u	3 u	4 u	4 u	17 u	30 u	66 u	72 u	79 u
South Africa	2 843 e	3 182 e	3 516 e	3 850 e	5 353 e	6 188 e	8 693 e	12 535 e	14 126 e
South Sudan	2 u	3 u	3 u	4 u	15 u	21 u	39 u	34 u	34 u
Sudan	18 u	20 u	20 u	22 u	28 u	28 u	126 u	126 u	126 u
Tanzania	15 e	15 e	17 e	10 e	11 e	10 e	9 e	10 e	21 e
Togo	0 e	1 e	9 e	12 e	16 e	74 e	104 e	101 e	137 e
Tunisia	67 u	137 u	178 u	258 u	165 u	231 u	336 u	467 u	607 u
Uganda	25 e	60 e	106 e	172 e	195 e	208 e	215 e	241 e	240 e
Zambia	2 e	3 e	6 e	105 e	159 e	157 e	154 e	159 e	142 e
Zimbabwe	4 e	4 e	11 e	16 e	20 e	46 e	66 e	76 e	193 e

Solar photovoltaic

Photovoltaïque solaire

Fotovoltaica solar

PROD (GWh)	2016	2017	2018	2019	2020	2021	2022	2023	2024
Asia	136 398	208 790	293 297	371 951	445 355	555 795	693 576	886 139	1 182 865
Afghanistan	35 u	38 u	38 u	57 u	65 u	76 u	90 u	117 u	121 u
Bangladesh	220 u	292 u	315 u	376 u	462 u	614 u	867 u	1 181 u	1 460 u
Bhutan	0 u	0 u	0 u	0 u	0 u	0 u	0 u	1 u	4 u
Brunei Darism	1 u	2 u	2 u	1 u	1 u	4 u	4 u	4 u	5 u
Cambodia	27 u	37 u	63 u	144 u	342 u	666 u	759 u	896 u	1 280 u
China	67 865 o	118 258 o	178 062 u	224 527 u	261 623 u	327 530 u	428 142 u	583 854 u	839 551 u
China HK SAR	4 o	6 o	6 o	16 o	52 o	120 u	210 u	210 u	210 u
Chinese Taipei	1 109 u	1 667 u	2 704 u	4 017 u	6 075 u	7 970 u	10 675 o	12 910 o	15 296 o
India	9 826 u	17 775 u	30 746 u	43 573 u	54 738 u	65 916 u	83 390 u	108 393 u	127 881 u
Indonesia	105 u	115 u	91 u	118 u	171 u	193 u	444 u	713 u	1 351 o
Japan	45 761 o	55 068 o	62 668 o	69 381 o	79 087 o	86 080 o	92 603 o	96 459 o	98 129 o
Kazakhstan	88 e	93 e	141 e	563 e	1 350 e	1 641 u	1 755 u	1 873 u	1 890 u
Korea DPR	42 u	47 u	64 u	84 u	102 u	132 u	149 u	167 u	184 u
Korea Rep	5 516 o	7 738 o	10 155 o	14 163 o	19 298 o	24 717 o	30 727 o	33 246 o	37 137 o
Lao PDR	4 u	12 u	20 u	45 u	67 u	96 u	127 u	167 u	96 e
Malaysia	363 e	427 e	662 e	1 487 e	2 089 e	2 625 e	3 422 e	4 413 e	6 380 e
Maldives	11 e	16 e	25 e	44 u	59 u	60 u	78 u	83 u	103 u
Mongolia	8 u	27 o	59 o	117 o	117 o	165 o	186 o	201 u	173 u
Myanmar	47 u	64 u	84 u	152 u	144 u	127 u	324 u	377 u	481 u
Nepal	19 u	76 u	81 u	84 u	82 u	86 u	107 u	117 u	134 u
Pakistan	716 e	984 e	1 023 e	1 056 e	1 479 e	2 068 e	3 005 e	4 485 e	4 287 e
Philippines	1 107 u	1 214 u	1 270 u	1 282 u	1 421 u	1 532 u	1 917 u	2 676 u	3 999 u
Singapore	88 u	125 u	138 u	195 u	318 u	391 u	685 u	918 u	1 252 u
Sri Lanka	45 u	152 u	224 u	341 u	464 u	640 u	844 u	998 u	1 329 u
Thailand	3 380 u	4 542 u	4 542 u	5 140 u	5 035 u	5 011 u	4 999 u	5 434 u	9 107 u
Timor Leste	2 u	1 u	1 u	0 u	0 u	0 u	0 u	0 u	0 u
Turkmenistan									
Uzbekistan	5 o	6 o	7 o	0 o	0 o	49 o	436 u	622 u	3 965 u
Viet Nam	5 u	8 u	105 u	4 987 u	10 717 u	27 314 u	27 660 u	25 696 u	27 059 u
C America + Carib	1 910	2 374	2 923	3 906	4 671	6 148	6 274	7 252	8 153
Anguilla	2 u	2 u	2 u	3 u	4 u	4 u	4 u	4 e	4 u
Antigua Barb	5 e	6 e	10 e	14 e	17 e	22 u	23 u	24 e	25 u
Aruba	12 u	13 u	19 u	26 u	26 u	26 u	26 u	26 u	26 u
Bahamas	4 u	4 u	4 u	6 u	8 u	12 u	20 u	24 u	28 e
Barbados	13 u	29 u	31 e	44 e	69 e	85 e	108 e	112 e	120 o
Belize	0 e	1 e	1 e	10 e	10 e	7 e	8 e	9 e	9 e
BES Islands	3 e	4 e	8 e	9 e	8 e	9 e	8 e	9 e	9 e
Br Virgin Is	1 u	2 u	2 u	2 u	2 u	2 u	2 u	2 e	3 e
Cayman Is	2 e	9 e	15 e	17 e	20 e	22 e	22 u	23 u	22 u
Costa Rica	20 o	23 o	49 o	71 o	83 o	107 o	106 o	107 e	124 e
Cuba	39 u	61 u	126 u	193 u	206 u	219 u	211 u	190 e	173 u
Curacao	18 u	19 u	20 u	20 u	22 e	14 e	14 e	14 e	9 u
Dominica	0 o	0 o	0 o	0 o	0 o	0 o	0 o	0 e	1 e
Dominican Rep	93 e	164 e	259 e	372 e	597 e	850 e	1 238 e	1 725 e	2 102 u
El Salvador	25 e	165 e	315 e	576 e	986 e	1 691 e	1 243 e	1 200 e	1 307 e
Grenada	2 e	3 e	3 e	4 e	4 e	4 u	4 e	4 e	4 o
Guadeloupe	94 e	93 e	98 e	103 e	107 e	114 e	114 e	112 e	115 u
Guatemala	192 e	199 e	209 e	234 e	222 e	230 e	221 e	247 e	253 e
Haiti	3 u	4 e	5 u	5 u	5 u	5 u	4 u	4 e	5 u
Honduras	889 e	929 e	999 e	1 127 e	1 067 e	1 088 e	975 e	1 022 e	1 046 e
Jamaica	15 u	44 u	46 u	90 u	125 u	132 u	132 u	134 o	128 u
Martinique	83 e	76 e	82 e	85 e	84 e	92 e	93 e	108 e	113 u
Montserrat					0 o	2 u	2 u	2 u	2 u
Nicaragua	2 e	14 e	24 e	26 e	24 e	27 e	26 e	31 e	58 o
Panama	71 e	143 e	251 e	335 e	371 e	657 e	775 e	877 e	1 020 e
Puerto Rico	291 e	345 e	312 e	498 e	563 e	679 e	846 e	1 189 e	1 395 u
St Barth	0 o	0 e	0 e	0 e	0 o	0 u	0 u	0 u	0 u
St Kitts Nevis	3 e	3 e	3 e	3 e	5 e	5 e	5 e	5 e	5 u
St Lucia	1 u	1 u	6 e	8 e	8 e	8 e	8 e	8 u	8 u
St Martin	3 u	0 u	0 e	0 e	1 e	1 e	2 e	2 e	2 o
St Vincent Gren	1 u	1 u	2 u	3 u	5 u	7 u	7 u	7 u	7 u
Trinidad Tobago	6 e	6 e	6 e	6 e	6 e	6 e	6 e	6 e	6 u
Turks Caicos	0 u	0 u	1 u	1 u	1 o	4 u	5 u	5 u	6 u
US Virgin Is	13 e	7 e	14 e	14 e	14 e	17 e	18 e	19 e	18 e
Eurasia	1 158	3 146	8 241	10 262	12 743	16 071	20 617	26 304	35 783
Armenia	0 u	0 u	19 u	24 u	57 u	164 u	524 u	733 u	979 u
Azerbaijan	35 o	37 o	39 o	44 o	47 e	55 o	61 u	79 o	556 o
Georgia	0 u	1 u	1 u	3 u	6 u	23 u	45 u	1 e	1 u
Russian Fed	79 u	219 u	381 u	940 u	1 683 u	1 886 u	3 100 o	3 400 o	3 500 o
Türkiye	1 043 o	2 889 o	7 800 o	9 250 o	10 950 o	13 943 o	16 888 o	22 091 o	30 746 o

Solar photovoltaic

Photovoltaïque solaire

Fotovoltaica solar

PROD (GWh)	2016	2017	2018	2019	2020	2021	2022	2023	2024
Europe	108 314	115 906	125 053	136 641	162 619	182 660	232 574	278 693	336 773
Albania	1 u	1 o	1 o	22 o	32 o	41 o	161 o	297 o	784 o
Andorra	0 u	1 u	1 u	1 u	1 u	1 u	2 e	4 e	6 o
Austria	1 096 o	1 269 o	1 455 o	1 702 o	2 043 o	2 783 o	3 792 o	6 889 o	8 143 o
Belarus	28 o	89 o	177 o	181 o	176 o	174 o	209 e	157 e	220 u
Belgium	3 095 o	3 308 o	3 904 o	4 252 o	5 113 o	5 623 o	6 881 o	7 835 o	8 562 o
Bosnia Herzg	47 o	21 o	21 o	30 o	45 o	72 o	114 o	253 o	601 o
Bulgaria	1 388 o	1 403 o	1 343 o	1 417 o	1 469 o	1 467 o	2 094 o	3 521 o	5 489 o
Croatia	66 o	79 o	75 o	83 o	96 o	149 o	152 o	413 o	820 o
Cyprus	146 o	172 o	199 o	218 o	296 o	468 o	602 o	831 o	1 108 o
Czechia	2 131 o	2 199 o	2 365 o	2 316 o	2 294 o	2 250 o	2 626 o	2 892 o	3 593 o
Denmark	744 o	751 o	953 o	963 o	1 181 o	1 309 o	2 385 o	3 658 o	3 776 o
Estonia	10 o	14 o	31 o	74 o	245 o	354 o	596 o	721 o	1 065 o
Faroe Islands					0 e	0 e	0 e	0 e	0 o
Finland	22 o	49 o	90 o	147 o	218 o	298 o	392 o	716 o	940 o
France	8 660 o	8 868 o	11 151 o	12 040 o	13 120 o	15 358 o	19 519 o	22 900 o	25 533 o
Germany	38 098 o	39 401 o	43 459 o	44 383 o	49 496 o	50 472 o	61 022 o	64 299 o	75 379 o
Greece	3 930 o	3 991 o	3 791 o	4 429 o	4 447 o	5 251 o	7 140 o	8 894 o	11 258 o
Hungary	244 o	349 o	629 o	1 497 o	2 459 o	3 796 o	4 732 o	6 925 o	9 200 o
Iceland	3 u	3 u	4 u	5 u	5 o	5 u	5 u	5 o	5 e
Ireland	5 o	10 o	18 o	34 o	55 o	85 o	149 o	646 o	1 093 o
Italy	22 104 o	24 378 o	22 654 o	23 689 o	24 942 o	25 039 o	28 121 o	30 711 o	35 993 o
Kosovo*	0 o	1 o	2 o	11 o	10 o	16 o	14 o	9 o	13 o
Latvia	0 o	0 o	1 o	3 o	5 o	7 o	75 o	239 o	536 o
Lithuania	66 o	68 o	87 o	91 o	129 o	191 o	342 o	688 o	1 397 o
Luxembourg	100 o	108 o	119 o	130 o	161 o	180 o	276 o	294 o	360 o
Malta	128 o	162 o	190 o	195 o	237 o	256 o	289 o	309 o	327 o
Moldova Rep	2 o	2 o	1 u	1 u	3 u	8 u	30 u	75 o	213 o
Montenegro					2 o	3 o	3 o	17 o	64 o
Netherlands	1 602 o	2 204 o	3 708 o	5 399 o	8 567 o	11 304 o	16 657 o	19 607 o	21 822 o
North Macedonia	24 o	24 o	23 o	23 o	24 o	51 o	101 o	370 u	889 u
Norway	24 u	40 u	74 u	122 u	98 o	125 o	189 u	374 o	551 o
Poland	124 o	165 o	300 o	711 o	1 958 o	3 934 o	8 310 o	11 107 o	17 663 o
Portugal	871 o	992 o	1 006 o	1 342 o	1 716 o	2 237 o	3 519 o	5 160 o	7 088 o
Romania	1 820 o	1 856 o	1 771 o	1 778 o	1 733 o	1 703 o	1 988 o	2 227 o	3 423 o
Serbia	19 u	23 u	24 u	28 u	35 u	59 o	148 o	178 o	294 u
Slovakia	533 o	506 o	585 o	589 o	663 o	671 o	650 o	605 o	694 o
Slovenia	267 o	284 o	255 o	303 o	368 o	453 o	646 o	984 o	1 268 o
Spain	8 092 o	8 543 o	7 913 o	9 459 o	15 714 o	21 962 o	31 228 o	43 463 o	53 800 o
Sweden	143 o	230 o	407 o	679 o	1 051 o	1 526 o	1 980 o	3 114 o	4 163 o
Switzerland	1 346 o	1 700 o	1 965 o	2 200 o	2 719 o	2 994 o	4 109 o	4 964 o	6 021 u
UK	10 395 u	11 457 o	12 668 u	12 418 u	12 552 o	12 133 o	13 978 u	14 632 u	14 364 u
Ukraine	940 o	1 183 o	1 632 o	3 675 o	7 141 o	7 854 u	7 350 u	7 707 o	8 252 o
European Union	95 484	101 361	108 459	117 924	139 774	159 125	206 162	249 648	304 494
Middle East	2 541	3 628	5 639	9 996	13 926	17 706	23 747	38 220	45 188
Bahrain	11 u	11 u	11 u	18 u	18 u	39 u	83 u	92 o	115 o
Iran IR	5 o	86 u	222 o	510 o	584 u	620 u	736 u	922 u	922 e
Iraq	57 u	57 u	377 o	377 o	377 u	377 u	377 u	377 u	377 u
Israel	1 636 u	1 643 u	1 828 u	2 610 u	3 525 u	4 574 u	5 352 u	7 845 e	9 406 o
Jordan	428 e	895 u	1 416 u	2 087 u	2 853 u	3 508 u	4 351 u	4 564 e	4 781 u
Kuwait	49 o	51 o	53 o	55 o	51 o	73 o	90 o	57 u	57 u
Lebanon	36 e	56 e	85 e	112 e	133 e	309 e	1 262 e	1 550 e	1 550 e
Oman	4 u	16 u	49 u	51 u	56 u	684 u	1 555 u	2 057 u	2 157 u
Palestine	44 u	46 u	62 u	125 u	181 u	230 u	348 u	428 u	436 u
Qatar	8 o	8 o	8 o	8 o	8 o	8 o	594 o	1 882 o	1 882 e
Saudi Arabia	46 e	65 e	65 e	112 e	680 u	737 u	932 u	4 522 u	11 638 u
Syrian AR		0 o	2 o	4 o	20 o	58 o	102 o	102 e	127 o
United Arab Em	61 u	493 u	971 o	3 434 u	4 942 u	5 991 u	7 455 u	13 312 e	11 231 u
Yemen	156 u	200 u	491 u	492 u	499 u	499 u	511 u	510 u	509 u
N America	50 147	71 099	87 980	107 759	135 965	173 671	210 100	244 704	305 751
Canada	3 005 u	3 308 u	3 491 u	3 752 u	4 072 u	5 115 u	5 737 u	6 691 u	7 021 u
Greenland			0 u	0 u	0 u	1 u	1 e	1 e	1 u
Mexico	509 u	398 u	3 244 u	10 064 u	15 990 u	20 403 u	20 550 e	23 575 u	24 120 u
USA	46 633 u	67 393 o	81 244 o	93 943 o	115 902 o	148 153 o	183 812 o	214 437 o	274 610 o

Solar photovoltaic

Photovoltaïque solaire

Fotovoltaica solar

PROD (GWh)	2016	2017	2018	2019	2020	2021	2022	2023	2024
Oceania	6 440	8 351	10 278	15 305	21 564	28 342	35 490	42 431	49 829
Amer Samoa	6 u	8 u	8 u	7 u	7 u	6 u	4 u	4 e	3 u
Australia	6 205 o	8 066 o	9 924 o	14 843 o	21 028 o	27 712 o	34 682 o	41 438 o	48 597 o
Cook Is	5 u	6 u	10 e	10 e	9 e	7 e	7 e	9 e	7 u
Fiji	8 e	11 e	12 e	12 e	12 e	12 e	13 e	14 e	16 u
Fr Polynesia	37 o	39 o	41 o	43 o	45 o	48 o	51 o	57 o	71 o
Guam	66 u	63 u	74 u	77 u	80 e	83 u	141 u	141 e	141 u
Kiribati	2 u	3 u	3 u	3 u	3 u	3 u	3 u	7 u	7 e
Marshall Is	1 u	2 u	2 u	2 u	2 u	2 u	2 u	3 e	4 u
Micronesia	5 u	5 u	6 u	7 u	10 u	10 u	10 u	10 u	10 u
Nauru	0 u	1 u	1 u	2 u	3 u	5 u	5 u	5 u	5 e
New Caledon	11 u	28 e	47 e	116 e	150 e	188 e	226 e	285 e	283 o
New Zealand	57 o	77 o	101 o	128 o	161 o	211 o	286 o	375 o	601 o
Niue	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 e	0 o
Palau	3 u	3 u	4 u	4 u	4 u	6 u	6 u	29 u	29 u
Papua N Guin	2 u	2 u	2 u	4 u	5 u	5 u	6 e	6 u	6 u
Samoa	16 u	21 e	22 e	24 e	23 e	23 e	22 u	20 e	19 u
Solomon Is	2 u	3 u	3 u	3 u	3 u	3 u	6 e	7 e	8 e
Tokelau	2 u	2 e	2 e	2 e	2 e	2 e	2 e	2 e	2 u
Tonga	5 e	6 e	7 e	8 e	8 e	7 e	9 e	11 e	11 u
Tuvalu	2 u	2 u	2 e	2 e	2 e	2 u	2 u	2 u	2 u
Vanuatu	3 u	4 u	6 u	8 u	8 e	7 e	7 e	7 e	7 u
S America	3 319	5 507	10 249	15 596	22 031	31 690	51 009	75 658	99 607
Argentina	24 u	26 u	123 u	860 u	1 464 u	2 402 u	3 137 u	3 516 u	4 413 u
Bolivia	6 o	7 o	127 o	188 o	250 e	351 o	351 u	371 u	362 u
Brazil	92 e	838 e	3 468 e	6 661 e	10 755 e	16 759 u	30 133 e	50 640 u	70 671 u
Chile	2 639 u	3 914 u	5 217 u	6 420 u	7 972 u	10 413 u	15 407 u	18 307 u	18 929 u
Colombia	2 u	7 u	14 u	138 u	202 u	341 u	524 u	1 230 u	3 254 u
Ecuador	39 e	37 e	38 e	38 e	38 e	37 e	39 e	41 e	39 o
Falklands Malv	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u
Fr Guiana	52 u	52 u	51 u	51 u	55 u	56 u	48 u	61 u	67 u
Guyana	3 u	4 u	7 u	9 u	11 u	11 u	14 u	23 u	29 u
Paraguay	0 u	0 u	0 u	0 u	0 u	0 u	1 u	2 u	2 u
Peru	306 e	361 e	797 e	823 e	839 e	861 e	880 e	1 016 u	1 371 u
Suriname	7 u	7 u	8 u	8 u	9 u	10 u	12 u	15 u	17 u
Uruguay	144 u	247 u	393 u	395 u	431 u	444 u	456 u	431 u	446 u
Venezuela	6 u	6 u	6 u	6 u	6 u	6 u	6 u	6 u	7 u

Concentrated solar power

Énergie solaire concentrée

Energía solar concentrada

CAP (MW)	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
World	4 970	5 070	5 811	6 368	6 406	6 366	6 564	6 864	7 495	8 334
Africa	425	525	985	1 085	1 085	1 085	1 085	1 085	1 185	1 185
Algeria	25 o	25 u	25 u	25 u	25 u	25 u	25 u	25 u	25 e	25 u
Egypt	20 o	20 o	20 u	20 u	20 u	20 u	20 u	20 u	20 u	20 u
Morocco	180 o	180 o	540 o	540 o	540 o	540 o	540 o	540 o	540 o	540 o
South Africa	200 o	300 o	400 o	500 u	500 o	500 o	500 o	500 u	600 u	600 u
Asia	365	365	580	744	798	918	918	918	1 328	2 168
China	31 u	31 u	246 u	396 u	450 o	570 o	570 o	570 o	980 o	1 820 o
India	329 u	329 u	329 u	343 u	343 u	343 u	343 u	343 u	343 u	343 u
Korea Rep	0 u	0 u								
Thailand	5 e	5 e	5 u	5 u	5 u	5 u	5 u	5 u	5 u	5 u
Eurasia	1	1	1	1	1	1	1	1	1	1
Türkiye	1 o	1 o	1 o	1 u	1 u	1 u	1 e	1 u	1 e	1 u
Europe	2 311	2 311	2 311	2 311	2 311	2 311	2 309	2 309	2 309	2 308
Germany	2 o	2 u	2 o	2 o	2 u	2 o				
Italy	5 o	5 o	5 o	5 o	5 o	5 o	5 o	5 o	5 e	5 u
Romania		0 o	0 o	0 o	0 o	0 o	0 o	0 u	0 e	0 u
Spain	2 304 o	2 304 o	2 304 o	2 304 o	2 304 o	2 304 o	2 304 e	2 304 e	2 304 o	2 303 o
European Union	2 311	2 311	2 311	2 311	2 311	2 311	2 309	2 309	2 309	2 308
Middle East	108	108	158	450	444	444	644	944	1 153	1 153
Israel	6 u	6 u	6 u	248 u	242 e	242 u	242 u	242 u	242 e	242 o
Kuwait	2 o	2 o	2 o	52 o	52 o	52 o	52 o	52 u	52 e	52 u
Saudi Arabia			50 u	50 u	50 u	50 u	50 u	50 u	50 u	50 u
United Arab Em	100 u	100 u	100 u	100 u	100 u	100 u	300 o	600 o	809 o	809 o
N America	1 758	1 758	1 774	1 775	1 765	1 497	1 497	1 497	1 409	1 409
Mexico			16 o	17 o	17 o	17 o	17 u	17 u	17 e	17 u
USA	1 758 o	1 758 e	1 758 e	1 758 e	1 748 e	1 480 e	1 480 e	1 480 o	1 392 o	1 392 o
Oceania	3	3	3	3	3	3	3	3	3	3
Australia	3 o	3 o	3 o	3 o	3 o	3 u	3 u	3 u	3 u	3 u
S America						108	108	108	108	108
Chile						108 o	108 o	108 o	108 o	108 o

Concentrated solar power

Énergie solaire concentrée

Energía solar concentrada

PROD (GWh)	2016	2017	2018	2019	2020	2021	2022	2023	2024
World	11 168	11 991	12 027	14 117	13 173	13 712	12 799	13 069	14 669
Africa	1 232	1 869	2 442	3 610	3 307	3 539	3 021	2 245	2 234
Algeria	134 o	186 e	133 u	133 u	118 u	118 u	118 u	118 u	118 e
Egypt	168 o	581 o	484 o	733 o	433 e	479 e	450 e	750 e	810 e
Morocco	400 o	414 o	794 o	1 186 o	1 130 o	1 286 o	864 o	1 o	1 o
South Africa	530 e	688 e	1 031 e	1 557 e	1 626 e	1 656 e	1 589 e	1 375 e	1 305 e
Asia	375	375	375	380	382	387	387	387	402
China	9 o	9 o	9 o	14 u	16 u	21 u	21 u	21 u	36 u
India	360 u	360 u	360 o	360 u	360 u	360 u	360 u	360 u	360 u
Korea Rep	0 u	0 e							
Thailand	5 u	5 u	5 u	5 u	5 u	5 u	5 u	5 u	5 u
Eurasia	3	3	3	3	3	3	3	3	3
Türkiye	3 u	3 o	3 o	3 o	3 o	3 u	3 o	3 o	3 u
Europe	5 592	5 895	4 879	5 695	5 004	5 188	4 548	5 177	4 553
Italy	12 u	12 o	12 o	12 o	12 o	12 u	12 o	12 o	12 u
Spain	5 579 o	5 883 o	4 867 o	5 683 o	4 992 o	5 176 o	4 536 o	5 165 o	4 540 o
European Union	5 592	5 895	4 879	5 695	5 004	5 188	4 548	5 177	4 553
Middle East	261	257	382	887	1 043	1 266	1 268	2 025	4 076
Israel				505 e	638 e	776 u	731 u	717 e	817 o
Kuwait				4 u	5 u	71 u	90 u	57 u	57 u
Saudi Arabia			149 u	149 u	149 u	149 u	149 u	149 u	149 u
United Arab Em	261 o	257 o	233 o	230 o	252 o	270 o	298 o	1 102 e	3 053 o
N America	3 701	3 587	3 940	3 535	3 427	3 170	3 259	3 096	3 397
USA	3 701 o	3 587 o	3 940 o	3 535 o	3 427 o	3 170 o	3 259 o	3 096 o	3 397 o
Oceania	4	5	5	6	6	5	5	4	4
Australia	4 o	5 o	5 o	6 o	6 o	5 o	5 o	4 o	4 o
S America						154	308	132	1
Chile						154 o	308 o	132 o	1 o

Bioenergy

Bioénergie

Bioenergía

CAP (MW)	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
World	103 867	109 662	116 751	122 534	129 769	136 413	143 070	147 792	152 501	155 364
Africa	1 547	1 663	1 818	1 832	1 862	1 960	1 976	2 254	2 432	2 432
Angola	51	51	51	51	51	51	51	51	51	51
Burkina Faso	1	1	1	1	1	1	1	1	11	11
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	2	3	3	3	3	3	3	13	13
Congo Rep	12	12	12	12	12	12	12	12	12	12
Egypt	67	67	67	79	79	123	123	131	131	131
Eswatini	106	106	106	106	106	106	106	106	106	106
Ethiopia	145	205	290	290	290	335	335	335	335	335
Gabon	1	1	1	1	1	1	1	1	1	1
Ghana	8	8	8	8	8	8	8	8	8	8
Kenya	84	85	88	88	99	99	99	99	174	174
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	41	41	41	41	41	41	41	41	41
Mauritius	91	91	91	91	91	91	91	91	91	91
Morocco	7	7	7	7	7	7	7	7	7	7
Mozambique	73	73	73	75	75	75	75	75	75	75
Namibia	0	0	1	1	1	1	1	1	1	1
Nigeria	9	9	9	9	13	21	21	21	21	21
Reunion	46	46	87	87	87	87	104	373	455	455
Rwanda	1	1	1	1	1	1	1	1	1	1
Senegal	49	49	49	49	49	49	49	49	49	49
Sierra Leone	34	34	34	34	34	34	34	34	34	34
South Africa	256	260	265	265	265	265	265	265	265	265
Sudan	199	199	199	199	199	199	199	199	199	199
Tanzania	68	70	70	70	70	70	70	70	70	70
Uganda	65	76	96	96	112	112	112	113	113	113
Zambia	43	43	43	43	43	43	43	43	43	43
Zimbabwe	100	100	100	100	100	100	100	100	100	100
Asia	29 891	33 244	37 096	42 008	48 734	54 869	59 349	62 101	65 029	67 207
Bangladesh	45	45	45	45	45	45	45	45	45	45
Cambodia	55	75	76	76	68	66	75	73	73	73
China	9 269	11 234	13 235	16 537	21 855	27 345	29 390	31 255	32 300	33 100
China HK SAR		45	45	52	52	52	58	58	62	62
Chinese Taipei	395	395	397	395	402	401	408	416	417	417
India	8 895	9 417	10 137	10 226	10 533	10 592	10 669	10 752	11 237	11 384
Indonesia	1 775	1 849	1 875	1 884	1 893	2 270	3 087	3 375	3 082	3 203
Japan	1 631	2 025	2 450	2 923	3 324	3 976	5 280	5 809	6 685	7 760
Kazakhstan	0	1	1	2	8	8	8	2	2	2
Korea Rep	1 745	2 349	2 387	3 215	3 627	2 730	2 730	2 753	3 484	3 503
Lao PDR	40	40	123	123	123	123	123	123	123	123
Malaysia	1 526	800	810	883	891	904	928	945	945	945
Maldives				0	0	0	0	0	0	0
Myanmar	49	52	57	59	59	59	59	59	59	59
Nepal	7	7	7	7	6	7	7	7	7	7
Pakistan	374	374	432	432	432	432	432	432	432	432
Philippines	312	339	404	456	576	582	696	678	800	815
Singapore	169	169	169	165	163	175	232	244	227	230
Sri Lanka	24	26	27	40	45	45	45	49	49	49
Thailand	3 323	3 728	4 037	4 097	4 241	4 682	4 684	4 617	4 543	4 500
Timor Leste	0	0	0	0	0	0	0	0	0	0
Viet Nam	256	274	382	389	390	373	393	408	456	497
C America + Carib	2 274	2 437	2 599	2 527	2 653	2 493	2 459	2 494	2 496	2 523
Aruba	2	2	0	0	0	0	0	0	1	1
Bahamas	1	1	1	1	1	1	1	1	1	1
Belize	28	36	36	36	36	36	36	36	36	36
Costa Rica	49	49	62	80	80	81	81	81	81	81
Cuba	405	442	464	370	476	482	440	440	440	440
Dominican Rep	20	81	81	81	81	81	83	83	83	83
El Salvador	259	270	305	300	300	301	303	304	305	305
Guadeloupe	31	32	33	33	50	50	50	51	51	51
Guatemala	992	1 028	1 081	1 036	1 036	870	870	870	870	870
Honduras	213	213	213	225	225	225	225	225	225	251
Jamaica	32	32	32	32	32	32	32	32	32	32
Martinique	3	3	44	44	44	44	44	46	46	46
Nicaragua	177	177	177	218	218	218	218	218	218	218
Panama	60	68	68	68	68	68	71	103	103	103
Puerto Rico	2	2	2	2	5	5	5	5	5	5
St Lucia	0	0	0	0	0	0	0	0	0	0
Trinidad Tobago	0									
Eurasia	436	553	671	867	1 182	1 756	2 036	2 179	2 215	2 193
Azerbaijan	38	43	45	45	45	45	45	38	38	38
Georgia								0	0	0
Russian Fed	39	39	39	39	40	129	131	131	131	157
Türkiye	359	472	587	784	1 097	1 583	1 861	2 010	2 046	1 999

Bioenergy

Bioénergíe

Bioenergía

CAP (MW)	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Europe	35 645	37 095	39 967	41 263	40 965	40 599	41 789	42 855	44 174	44 137
Albania		1	1	1	1	1	1	1	1	1
Andorra	5	5	5	5	5	5	5	5	5	5
Austria	1 393	1 290	1 271	1 249	1 251	1 171	1 195	1 228	1 152	1 176
Belarus	40	41	48	53	123	120	139	101	101	101
Belgium	923	912	887	906	922	815	875	822	582	730
Bosnia Herzg	1	1	1	2	2	10	10	10	10	10
Bulgaria	57	52	69	57	48	46	77	77	91	91
Croatia	63	87	115	127	135	154	161	151	157	157
Cyprus	10	10	13	13	13	13	14	14	11	11
Czechia	773	802	781	831	846	853	861	821	853	853
Denmark	1 305	1 791	1 774	1 982	2 086	2 152	2 008	1 968	1 969	1 961
Estonia	281	281	259	273	296	296	296	296	987	987
Faroe Islands					0	2	2	2	2	2
Finland	1 920	2 151	2 155	2 135	2 596	2 561	3 321	3 652	3 765	3 776
France	1 648	1 699	1 911	1 999	1 924	2 044	2 071	2 169	2 194	2 217
Germany	8 660	8 982	9 662	9 994	10 320	9 792	9 830	9 860	9 935	10 067
Greece	58	64	82	88	97	109	128	138	148	185
Hungary	427	491	513	504	509	551	533	525	635	635
Ireland	54	86	84	87	87	88	88	87	205	205
Italy	3 439	3 450	3 491	3 454	3 439	3 420	3 392	3 399	3 343	3 403
Latvia	143	154	158	158	156	152	144	130	126	112
Lithuania	72	79	104	105	116	116	118	169	170	199
Luxembourg	25	36	36	56	56	56	56	92	93	93
Malta	5	5	5	5	5	6	4	4	4	4
Moldova Rep	3	6	6	6	7	7	15	15	7	7
Netherlands	772	781	823	814	858	858	871	1 554	1 554	874
North Macedonia	5	7	8	9	10	12	15	15	13	13
Norway	87	87	87	81	77	77	77	83	92	92
Poland	974	968	1 004	1 010	1 045	1 100	1 217	1 177	1 153	1 215
Portugal	587	582	648	702	715	717	706	708	710	705
Romania	123	140	141	139	165	140	185	155	159	159
Serbia	11	15	19	28	31	36	39	55	62	62
Slovakia	253	246	243	226	225	250	264	205	348	348
Slovenia	60	62	60	60	67	67	67	67	67	67
Spain	1 037	1 045	1 057	1 112	1 264	1 278	1 279	1 279	1 282	1 314
Sweden	4 850	4 822	5 021	5 299	3 665	3 579	3 710	3 753	3 667	3 667
Switzerland	275	280	283	282	285	279	274	275	275	275
UK	5 251	5 514	7 043	7 230	7 305	7 391	7 468	7 494	7 816	7 829
Ukraine	60	73	98	180	212	275	275	301	430	530
European Union	29 909	31 066	32 368	33 386	32 907	32 384	33 468	34 499	35 360	35 210
Middle East	85	86	89	89	89	89	102	126	354	368
Iran IR	11	11	11	11	11	11	14	14	22	22
Israel	26	26	31	31	31	31	32	35	46	46
Jordan	13	13	13	13	13	13	13	13	13	13
Lebanon	9	9	7	7	7	7	7	7	7	7
Palestine		0	0	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	9	30	240	254
Yemen						0	0	0	0	0
N America	16 356	16 440	16 221	15 453	15 348	14 924	14 712	14 436	14 065	13 912
Canada	2 610	2 729	2 729	2 524	2 581	2 705	2 723	2 708	2 708	2 708
Greenland	1	1	1	1	1	1	1	1	1	1
Mexico	843	873	871	871	873	880	882	886	890	890
USA	12 903	12 838	12 621	12 058	11 894	11 339	11 106	10 842	10 466	10 314
Oceania	1 079	1 094	1 094	1 094	1 101	1 108	1 111	1 111	1 129	1 052
Australia	864	864	864	864	871	871	871	871	890	827
Fiji	47	59	59	59	59	66	66	66	66	66
New Caledon	0	0	0	0	0	0	0	0	1	1
New Zealand	146	149	149	149	148	148	151	151	149	134
Papua N Guin	18	18	18	18	18	18	18	18	18	18
Samoa				0	1	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
S America	16 554	17 050	17 196	17 402	17 837	18 614	19 536	20 235	20 607	21 541
Argentina	222	241	243	260	323	354	358	376	380	435
Bolivia	131	115	139	144	144	143	192	269	269	265
Brazil	14 652	15 039	15 143	15 351	15 713	16 378	17 229	17 485	17 807	18 373
Chile	463	500	501	452	454	490	490	521	521	765
Colombia	259	312	322	322	330	352	354	386	388	422
Ecuador	146	152	152	152	152	153	153	153	166	167
Fr Guiana	2	2	2	2	2	10	10	16	17	17
Guyana	45	45	45	45	45	45	45	45	45	45
Paraguay	20	20	20	22	22	22	22	22	22	22
Peru	186	196	197	218	218	187	203	168	197	236
Suriname	2	2	2	2	2	2	2	2	2	2
Uruguay	417	417	423	423	423	423	423	737	737	737
Venezuela	10	10	10	10	10	56	56	56	56	56

Bioenergy

Bioénergie

Bioenergía

PROD (GWh)	2016	2017	2018	2019	2020	2021	2022	2023	2024
World	474 141	496 270	519 048	548 233	571 228	616 161	625 237	641 530	660 170
Africa	3 273	3 166	3 362	3 397	3 262	3 212	3 245	4 080	5 234
Angola	155	200	200	200	200	200	200	200	200
Burkina Faso	0	1	0	0	0	1	1	1	4
Burundi	7	7	6	5	6	5	4	4	4
Chad	6	6	6	5	5	6	5	5	6
Congo DR	0	6	8	8	8	8	8	8	47
Congo Rep	32	32	32	32	32	32	32	32	32
Egypt	311	308	316	337	347	349	341	335	425
Eswatini	181	180	187	187	193	192	183	187	184
Ethiopia	28	23	26	30	27	16	8	14	49
Gabon	1	1	1	1	1	1	1	1	1
Ghana	19	19	20	20	20	19	20	20	20
Kenya	194	152	163	144	195	195	195	195	195
Liberia	0	1	1	1	1	1	1	1	1
Madagascar	1	1	1	1	1	1	1	1	1
Malawi	48	44	47	46	48	48	47	43	48
Mali	33	34	35	37	37	37	37	36	35
Mauritius	516	480	460	459	408	369	300	323	308
Morocco	11	40	40	40	40	40	40	40	40
Mozambique	129	137	105	107	105	78	65	65	65
Namibia	0	0	0	0	0	0	0	0	0
Nigeria	23	28	30	27	41	61	60	62	60
Reunion	261	274	211	262	241	240	251	1 041	2 069
Rwanda	2	2	2	2	2	2	2	2	2
Senegal	58	65	66	67	62	61	61	61	63
Sierra Leone	10	10	10	10	10	10	10	14	14
South Africa	331	386	431	430	410	389	404	404	380
Sudan	120	130	122	109	103	86	89	87	87
Tanzania	144	149	152	163	158	157	157	166	160
Uganda	282	256	317	307	295	385	486	487	485
Zambia	63	67	71	72	69	66	70	73	76
Zimbabwe	306	125	295	288	199	159	167	171	173
Asia	127 214	142 776	159 816	184 098	201 275	236 062	259 502	282 586	287 165
Bangladesh	23	43	31	35	35	32	12	14	15
Cambodia	100	106	110	131	102	90	57	132	134
China	49 404	59 992	67 301	82 250	98 200	117 800	129 700	140 100	146 300
China HK SAR	50	89	90	93	114	141	150	150	150
Chinese Taipei	1 906	1 862	1 975	1 994	1 997	2 004	1 967	2 053	2 057
India	18 212	16 664	18 729	20 913	20 663	22 253	24 421	24 482	25 404
Indonesia	10 215	11 763	12 439	12 177	12 363	14 971	20 621	22 475	21 325
Japan	17 325	19 911	21 013	25 469	27 768	34 226	37 357	41 489	43 047
Kazakhstan	46	51	27	29	35	30	0	1	2
Korea Rep	8 000	7 888	9 945	9 997	10 047	10 797	10 507	11 916	11 746
Lao PDR	55	73	208	365	379	354	512	521	512
Malaysia	448	645	1 227	2 097	2 893	3 851	3 967	4 002	4 121
Maldives			0	0	0	0	0	0	0
Myanmar	212	231	251	260	261	256	263	263	263
Nepal	10	9	13	13	7	10	11	11	11
Pakistan	2 731	3 288	2 913	2 747	2 839	3 202	3 202	3 202	963
Philippines	805	1 092	1 184	1 119	1 340	1 524	1 401	1 488	1 525
Singapore	782	747	725	742	663	725	999	879	954
Sri Lanka	72	67	87	118	99	128	82	153	138
Thailand	16 453	17 819	20 966	22 995	21 012	23 259	23 678	27 972	27 268
Timor Leste	0	0	0	0	0	0	0	0	0
Viet Nam	366	437	585	554	459	408	596	1 286	1 232
C America + Carib	6 270	5 989	6 758	7 942	6 725	7 216	6 490	7 100	6 664
Aruba	5	0	0						
Bahamas	6	6	6	6	6	6	6	6	6
Belize	115	120	137	163	270	133	174	141	141
Costa Rica	93	106	95	91	78	87	75	74	79
Cuba	688	624	445	523	564	542	393	364	227
Dominican Rep	112	371	461	465	423	457	448	475	485
El Salvador	715	711	748	829	815	904	815	801	814
Guadeloupe	50	66	68	64	76	247	238	262	201
Guatemala	2 876	2 181	2 950	3 461	2 516	2 603	2 094	2 714	2 587
Honduras	752	806	724	965	711	804	805	829	692
Jamaica	24	24	13	21	17	17	10	10	9
Martinique	15	13	90	249	228	241	264	254	256
Nicaragua	533	666	702	848	739	907	899	923	934
Panama	279	282	309	242	271	255	254	235	225
Puerto Rico	7	11	11	15	9	14	14	12	8
St Lucia	0	0	0	0	0	0	0	0	0
Trinidad Tobago	0								
Eurasia	1 842	2 351	2 884	3 811	5 038	7 039	8 671	9 335	9 954
Azerbaijan	175	170	162	196	201	193	205	223	233
Russian Fed	32	84	73	109	393	393	393	393	393
Türkiye	1 635	2 096	2 650	3 506	4 445	6 453	8 073	8 719	9 329

Bioenergy

Bioénergie

Bioenergía

PROD (GWh)	2016	2017	2018	2019	2020	2021	2022	2023	2024
Europe	184 136	188 898	193 346	200 375	205 338	215 995	205 540	197 339	203 615
Andorra	14	17	21	22	20	17	19	17	16
Austria	4 780	4 921	4 930	4 655	4 591	4 480	4 757	4 558	4 671
Belarus	147	163	174	304	578	581	519	506	550
Belgium	5 377	5 707	5 413	5 165	5 263	4 711	4 928	3 791	3 606
Bosnia Herzg	1	6	8	8	13	42	31	36	35
Bulgaria	353	396	1 573	1 821	1 699	2 589	2 244	1 874	1 716
Croatia	431	526	668	878	978	1 100	1 129	1 047	1 004
Cyprus	52	52	57	58	61	60	58	54	55
Czechia	4 756	4 967	4 828	5 032	5 215	5 385	5 406	5 190	5 375
Denmark	4 845	6 249	5 890	5 962	6 110	9 053	7 380	6 605	7 404
Estonia	949	1 095	1 307	1 363	1 852	1 769	1 569	1 377	1 335
Faroe Islands					1	7	5	4	7
Finland	11 523	11 860	12 909	13 291	11 570	13 579	12 762	11 342	10 387
France	7 522	7 781	8 378	8 644	8 764	9 575	9 673	10 478	11 436
Germany	50 929	50 916	50 794	50 127	50 931	49 096	48 599	51 263	51 084
Greece	275	310	314	402	454	499	569	655	715
Hungary	2 071	2 152	2 296	2 227	2 155	2 231	2 138	1 564	1 835
Ireland	679	735	848	855	924	995	1 014	831	1 003
Italy	19 509	19 378	19 153	19 563	19 634	19 071	17 616	16 018	17 237
Latvia	823	931	944	927	865	862	801	659	621
Lithuania	439	504	543	533	594	686	708	763	979
Luxembourg	140	171	217	278	372	389	389	378	441
Malta	8	10	9	6	6	7	7	10	9
Moldova Rep	14	23	28	29	28	32	24	14	17
Netherlands	5 436	5 267	4 553	5 822	8 839	10 918	9 820	7 607	6 682
North Macedonia	36	52	54	55	57	54	51	65	60
Norway	233	259	204	253	240	215	238	249	237
Poland	7 981	6 521	6 581	7 717	8 384	8 095	7 665	8 196	7 952
Portugal	3 071	3 220	3 156	3 363	3 786	4 003	4 113	3 800	3 852
Romania	531	525	437	504	547	653	647	445	476
Serbia	39	79	107	138	192	247	252	254	344
Slovakia	1 731	1 696	1 625	1 693	1 673	1 844	1 490	1 414	1 583
Slovenia	281	290	267	251	274	277	269	297	259
Spain	5 689	6 078	5 911	5 572	6 138	6 943	6 799	5 903	6 165
Sweden	11 487	12 076	11 913	13 036	11 177	13 082	13 132	11 700	10 179
Switzerland	1 750	1 860	1 833	1 885	2 035	2 094	2 107	2 114	2 177
UK	30 065	31 894	35 102	37 528	38 565	40 001	35 952	34 497	40 252
Ukraine	169	211	301	407	755	755	661	1 767	1 856
European Union	151 668	154 334	155 514	159 746	162 853	171 949	165 681	157 816	158 063
Middle East	314	347	353	305	344	330	350	551	1 658
Iran IR	22	24	24	11	22	22	22	22	22
Israel	122	125	125	107	117	103	111	115	115
Jordan	4	4	3	4	4	4	4	4	4
Lebanon	10	30	32	32	32	32	32	32	32
Palestine		1	0	0	0	0	0	0	0
Qatar	123	129	135	118	134	134	134	134	134
Syrian AR	33	33	33	33	33	33	33	33	33
United Arab Em	0	0	0	0	1	0	12	210	1 317
N America	82 951	82 944	81 834	76 740	73 036	72 516	68 181	63 034	62 133
Canada	12 460	12 028	11 663	11 427	10 705	11 243	9 597	9 578	10 170
Greenland	13	13	14	15	14	14	12	11	11
Mexico	1 461	2 046	2 272	2 104	2 048	1 677	1 426	1 099	1 101
USA	69 017	68 857	67 885	63 194	60 269	59 582	57 146	52 346	50 852
Oceania	4 617	4 404	4 416	4 417	4 280	4 283	4 106	3 991	4 240
Australia	3 722	3 500	3 518	3 496	3 351	3 347	3 190	3 093	3 302
Fiji	47	66	84	94	111	97	115	116	97
New Caledon	1	0	1	1	0	0	0	1	1
New Zealand	809	801	775	791	783	798	760	746	804
Papua N Guin	32	33	34	31	31	32	32	32	32
Samoa				0	0	5	5	0	0
Solomon Is	4	4	3	3	3	3	3	3	3
Vanuatu	2	0	1	1	1				
S America	63 524	65 395	66 279	67 149	71 929	69 509	69 151	73 514	79 506
Argentina	1 107	1 264	1 106	1 783	2 561	2 570	3 856	3 994	4 139
Bolivia	176	163	168	217	327	455	538	416	420
Brazil	51 048	52 636	53 999	54 496	58 200	55 335	54 638	57 448	61 054
Chile	5 957	6 062	5 689	5 395	5 237	5 125	4 594	5 707	6 115
Colombia	1 587	1 591	1 674	1 538	1 606	2 023	1 782	1 689	1 883
Ecuador	489	459	428	455	471	415	390	356	497
Fr Guiana	12	10	11	10	9	37	42	55	80
Guyana	36	28	19	17	19	19	16	16	8
Paraguay	136	129	133	137	140	113	201	205	240
Peru	489	440	453	532	585	593	586	461	562
Suriname	6	6	6	6	6	6	6	6	6
Uruguay	2 436	2 557	2 540	2 512	2 721	2 758	2 457	3 103	4 444
Venezuela	44	48	52	50	48	61	46	57	59

Renewable waste

Déchets renouvelables

Residuos renovables

CAP (MW)	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
World	10 631	11 583	12 760	14 252	16 081	19 007	20 359	21 530	22 611	23 517
Africa			25	25	25	25	25	25	25	25
Burkina Faso									0 o	0 o
Ethiopia			25 o	25 u	25 o	25 o	25 e	25 o	25 o	25 o
Asia	4 534	5 329	6 377	7 834	9 607	12 673	14 088	15 165	16 049	16 917
China	2 870 o	3 640 o	4 575 o	6 009 o	7 665 o	10 645 o	11 930 o	12 885 o	13 690 o	14 330 o
Chinese Taipei	315 o	315 o	316 o	316 o	316 o	316 o	316 o	333 o	333 o	332 o
India	139 o	146 o	159 o	165 o	188 o	217 u	260 u	291 u	310 u	428 o
Indonesia	8 o	8 o	8 o	8 o	8 u	14 u	12 u	18 u	18 o	18 o
Japan	919 o	935 o	958 o	975 o	1 027 o	1 050 o	1 057 o	1 108 o	1 127 o	1 191 o
Korea Rep	77 o	54 o	63 o	63 o	91 o	91 o	91 o	92 o	151 o	152 u
Malaysia	7 u	7 u	7 u	7 u	7 u	7 u	16 u	16 o	16 e	16 e
Maldives				0 u	0 u	0 u	0 u	0 u	0 e	0 u
Myanmar		0 u	0 u	0 u	0 u	0 u	0 u	0 e	0 e	0 u
Philippines									0 o	0 o
Singapore	128 o	128 o	128 o	128 o	128 o	128 o	197 o	197 o	173 o	173 o
Sri Lanka				5 o	5 o	5 o	5 o	5 o	5 o	5 u
Thailand	73 u	96 u	159 u	157 u	167 u	194 u	188 u	188 u	188 u	193 o
Viet Nam		1 u	5 u	5 u	5 u	5 u	15 u	30 u	36 u	77 u
C America + Carib	4	4	2	2	2	2	2	5	6	6
Aruba	2 o	2 o	0 u	0 u	0 u	0 u	0 u	0 u	1 e	1 u
Martinique	2 e	2 e	2 e	2 e	2 e	2 e	2 e	5 u	5 u	5 o
Eurasia	37	42	45	46	46	98	98	98	98	50
Azerbaijan	37 u	42 o	44 u	44 u	44 e	44 u	44 e	37 u	37 o	37 e
Türkiye			1 o	2 o	2 o	54 o	54 o	61 o	61 e	13 o
Europe	4 868	5 022	5 136	5 227	5 280	5 083	5 052	5 161	5 164	5 236
Albania		1 u	1 u	1 u	1 u	1 u	1 e	1 o	1 e	1 u
Andorra	5 o	5 o	5 o	5 o	5 u	5 u	5 e	5 u	5 e	5 u
Austria	271 o	271 o	270 o	272 o	270 o	240 o	245 o	245 o	221 o	217 o
Belgium	156 u	157 u	159 u	164 u	173 u	182 u	183 u	179 o	179 e	212 u
Czechia	28 o	28 u	28 u	28 o	28 u	28 u	28 e	28 u	28 e	28 u
Denmark	166 o	182 o	181 o	181 o	178 o	176 o	176 o	176 o	177 o	169 o
Estonia	105 o	105 u	85 o	85 o	85 u	85 o	85 e	85 o	9 o	9 u
Finland	59 o	69 o	69 o	69 o	69 o	69 o	69 o	85 o	111 o	113 o
France	619 o	624 o	607 o	608 o	555 o	571 o	577 o	538 o	542 o	542 u
Germany	982 o	1 007 u	1 066 u	1 087 u	1 027 e	1 075 o	1 058 o	1 039 o	1 058 e	1 091 u
Hungary	29 o	23 o	23 o	23 o	27 o	28 o	25 o	23 o	19 o	19 u
Ireland	11 o	41 o	41 o	41 o	41 o	41 o	41 o	41 o	41 o	41 u
Italy	420 u	421 u	428 u	413 u	420 u	438 u	416 o	437 o	439 o	439 u
Lithuania	8 o	9 o	7 o	7 o	17 o	21 o	19 e	20 o	21 o	21 u
Luxembourg	9 o	9 o	9 u	9 u	9 o	9 o	9 e	9 o	9 o	9 u
Netherlands	338 e	338 o	393 o	393 o	394 o	394 o	394 o	394 u	394 e	394 u
Norway	50 o	50 o	50 o	47 o	46 o	43 o	43 e	44 o	46 o	46 u
Poland	157 u	190 u	202 u	195 u	217 u	184 u	199 e	192 u	192 o	192 u
Portugal	42 o	41 o	41 o	41 o	41 o	41 u	40 o	40 o	40 o	40 u
Serbia		1 u	1 u	1 u	1 u	1 u	1 u	16 u	17 e	17 u
Slovakia	10 o	6 o	6 o	6 u	6 u	6 u	7 o	6 o	7 o	7 u
Spain	117 o	121 o	121 o	121 o	121 o	133 o	133 o	133 o	133 o	149 o
Sweden	564 o	567 o	566 o	568 o	623 o	386 o	336 o	438 o	478 o	478 u
Switzerland	212 o	212 u	212 o	211 o	211 o	203 o	198 o	198 o	198 o	198 u
UK	514 e	545 e	568 e	655 e	717 e	725 e	765 o	789 o	800 o	800 u
European Union	4 087	4 208	4 299	4 307	4 299	4 105	4 038	4 108	4 096	4 168
Middle East	15	15	15	15	15	15	15	35	245	259
Qatar	15 u	15 u	15 u	15 u	15 u	15 u	15 u	15 u	15 u	15 u
United Arab Em								20 e	230 o	244 o
N America	1 170	1 169	1 157	1 100	1 101	1 098	1 065	1 028	989	989
Canada	46 o	46 o	40 o	40 o	40 o	40 o	40 o	38 u	38 u	38 u
Greenland	1 u	1 u	1 u	1 u	1 u	1 u	1 u	1 u	1 e	1 u
USA	1 124 o	1 123 e	1 117 e	1 060 e	1 061 e	1 058 e	1 025 e	990 o	950 o	950 o
Oceania									20	20
Australia									19 u	19 u
New Caledon									1 e	1 u
S America	2	2	2	2	4	12	13	14	16	15
Brazil	2 u	2 u	2 u	2 u	4 u	12 u	13 u	14 u	14 u	13 o
Colombia									2 o	2 u

Renewable waste

Déchets renouvelables

Residuos renovables

PROD (GWh)	2016	2017	2018	2019	2020	2021	2022	2023	2024
World	53 275	58 235	63 301	69 400	74 357	87 634	94 844	100 326	106 352
Africa								7	41
Ethiopia								7 o	41 o
Asia	20 134	24 472	28 717	35 834	40 111	52 445	59 887	65 818	70 918
China	15 296 o	19 438 o	23 264 o	30 350 u	34 400 u	45 900 u	52 700 u	57 800 u	62 000 o
Chinese Taipei	1 698 u	1 671 e	1 783 u	1 817 u	1 785 u	1 802 u	1 803 o	1 809 o	1 819 o
India	290 u	301 u	417 u	579 u	929 u	1 536 u	1 910 u	2 280 u	2 598 u
Indonesia	3 u	295 u	311 u	11 u	9 u	6 u	22 u	31 u	30 o
Japan	1 828 o	1 695 o	1 811 o	1 907 o	1 770 o	1 855 o	2 005 o	1 929 o	2 449 o
Korea Rep	361 o	422 o	466 o	451 o	529 o	590 o	375 o	489 o	504 o
Malaysia	8 e	19 e	8 e	9 e	9 e	9 e	9 e	9 e	9 e
Maldives				0 u	0 u	0 u	0 u	0 u	0 u
Myanmar		1 e	1 u	1 u	1 u	1 u	1 u	1 u	1 u
Singapore	627 u	590 u	566 u	579 u	504 u	502 u	828 u	650 u	656 u
Sri Lanka					1 u	35 u	35 u	36 u	34 o
Thailand	23 u	37 u	76 u	116 u	160 u	195 u	155 u	697 u	712 u
Viet Nam	0 e	3 e	14 u	14 u	14 u	14 u	44 u	87 u	105 u
C America + Carib	18	12	13	9	5	13	13	13	13
Aruba	5 u	0 o	0 o						
Martinique	14 e	12 e	13 e	9 e	5 e	13 e	13 e	13 e	13 u
Eurasia	175	170	174	213	215	478	933	949	1 000
Azerbaijan	175 o	170 o	162 o	196 o	201 e	193 o	205 u	223 e	233 o
Türkiye			11 o	17 o	15 o	284 o	728 o	726 o	767 o
Europe	24 112	25 068	25 693	25 900	26 581	27 229	26 900	26 478	26 452
Andorra	14 o	17 o	21 o	22 o	20 e	17 u	19 e	17 e	16 o
Austria	365 u	339 u	359 u	381 u	351 u	377 u	377 o	392 o	371 e
Belgium	1 074 u	1 131 u	1 132 u	1 090 u	1 120 u	1 170 u	1 214 o	1 163 u	1 228 u
Bulgaria			81 o	44 o	2 o				
Czechia	99 o	114 o	100 o	105 o	119 o	127 o	130 o	150 o	155 o
Denmark	861 o	884 o	861 o	964 o	945 o	971 o	787 o	712 o	742 o
Estonia	64 o	57 o	46 o	64 o	75 o	58 o	41 o	53 o	57 o
Finland	519 o	556 o	662 o	610 o	513 o	582 o	588 o	441 o	453 o
France	2 122 o	2 205 o	2 202 o	2 173 o	2 137 o	2 125 o	2 108 o	2 064 o	2 150 o
Germany	5 949 u	5 977 u	6 186 o	5 827 o	5 838 u	6 023 o	5 863 o	5 818 u	5 647 u
Hungary	245 o	159 o	162 o	137 o	167 o	161 o	130 o	118 o	100 o
Ireland	76 o	151 o	330 o	320 o	326 o	351 o	347 o	334 o	343 o
Italy	2 482 u	2 467 u	2 461 u	2 467 u	2 438 u	2 439 u	2 448 o	2 470 o	2 414 u
Lithuania	47 o	73 o	48 o	48 o	71 o	142 o	156 o	230 o	251 o
Luxembourg	42 o	47 o	47 o	47 o	43 o	43 o	42 o	34 o	42 o
Netherlands	2 007 o	1 904 o	2 172 o	2 082 o	2 193 o	2 208 o	2 225 o	1 982 o	1 883 o
Norway	192 o	214 o	171 o	214 o	210 o	185 o	205 o	213 o	211 o
Poland	1 293 u	1 277 u	1 239 u	1 422 u	1 759 u	1 458 u	1 253 o	1 295 o	1 247 u
Portugal	305 o	360 o	327 o	349 o	320 o	343 o	309 o	299 o	360 o
Serbia		4 o	5 o	4 o	4 u	4 u	5 o	7 o	56 o
Slovakia	26 o	22 o	16 o	29 o	43 o	32 o	50 o	45 o	38 o
Spain	735 o	772 o	755 o	770 o	703 o	855 o	864 o	841 o	846 o
Sweden	1 681 o	1 778 o	1 656 o	1 767 o	1 646 o	1 813 o	1 761 o	1 381 o	1 287 o
Switzerland	1 175 o	1 174 o	1 164 o	1 173 o	1 178 o	1 108 o	1 087 o	1 045 o	1 092 u
UK	2 740 o	3 386 u	3 490 u	3 792 u	4 359 u	4 636 u	4 894 u	5 376 u	5 463 u
Ukraine		0 o							
European Union	19 991	20 273	20 841	20 696	20 809	21 279	20 691	19 821	19 613
Middle East	105	110	114	93	106	106	106	298	1 379
Israel	8 u	8 u	8 u						
Qatar	97 u	102 u	106 u	93 u	106 u	106 u	106 u	106 u	106 u
United Arab Em							0 o	192 e	1 273 o
N America	8 723	8 396	8 583	7 344	7 327	7 335	6 960	6 717	6 502
Canada	186 o	200 o	187 o	186 o	176 o	176 o	165 o	164 o	158 o
Greenland	13 e	13 e	14 e	15 e	14 e	14 e	12 e	11 e	11 u
USA	8 524 o	8 183 o	8 382 o	7 143 o	7 137 o	7 145 o	6 783 o	6 542 o	6 333 o
S America	7	7	7	7	11	29	44	47	48
Brazil	7 u	7 u	7 u	7 u	11 u	29 u	44 u	47 u	48 u

Renewable municipal waste

Déchets municipaux renouvelables

Residuos municipales renovables

CAP (MW)	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
World	10 451	11 375	12 548	14 043	15 855	18 777	20 113	21 291	22 372	23 278
Africa			25	25	25	25	25	25	25	25
Burkina Faso									0 o	0 o
Ethiopia			25 o	25 u	25 o	25 o	25 e	25 o	25 o	25 o
Asia	4 534	5 329	6 377	7 834	9 607	12 673	14 088	15 165	16 049	16 917
China	2 870 o	3 640 o	4 575 o	6 009 o	7 665 o	10 645 o	11 930 o	12 885 o	13 690 o	14 330 o
Chinese Taipei	315 o	315 o	316 o	316 o	316 o	316 o	316 o	333 o	333 o	332 o
India	139 o	146 o	159 o	165 o	188 o	217 u	260 u	291 u	310 u	428 o
Indonesia	8 o	8 o	8 o	8 o	8 u	14 u	12 u	18 u	18 o	18 o
Japan	919 o	935 o	958 o	975 o	1 027 o	1 050 o	1 057 o	1 108 o	1 127 o	1 191 o
Korea Rep	77 o	54 o	63 o	63 o	91 o	91 o	91 o	92 o	151 o	152 u
Malaysia	7 u	7 u	7 u	7 u	7 u	7 u	16 u	16 o	16 e	16 e
Maldives				0 u	0 u	0 u	0 u	0 u	0 e	0 u
Myanmar		0 u	0 u	0 u	0 u	0 u	0 u	0 e	0 e	0 u
Philippines									0 o	0 o
Singapore	128 o	128 o	128 o	128 o	128 o	128 o	197 o	197 o	173 o	173 o
Sri Lanka				5 o	5 o	5 o	5 o	5 o	5 o	5 u
Thailand	73 u	96 u	159 u	157 u	167 u	194 u	188 u	188 u	188 u	193 o
Viet Nam		1 u	5 u	5 u	5 u	5 u	15 u	30 u	36 u	77 u
C America + Carib	4	4	2	2	2	2	2	5	6	6
Aruba	2 o	2 o	0 u	0 u	0 u	0 u	0 u	0 u	1 e	1 u
Martinique	2 e	2 e	2 e	2 e	2 e	2 e	2 e	5 u	5 u	5 o
Eurasia	37	42	45	46	46	98	98	98	98	50
Azerbaijan	37 u	42 o	44 u	44 u	44 e	44 u	44 e	37 u	37 o	37 e
Türkiye			1 o	2 o	2 o	54 o	54 o	61 o	61 e	13 o
Europe	4 688	4 813	4 924	5 018	5 054	4 854	4 806	4 922	4 925	4 997
Albania		1 u	1 u	1 u	1 u	1 u	1 e	1 o	1 e	1 u
Andorra	5 o	5 o	5 o	5 o	5 u	5 u	5 e	5 u	5 e	5 u
Austria	271 o	271 o	270 o	272 o	270 o	240 o	245 o	245 o	221 o	217 o
Belgium	125 o	125 o	125 o	126 o	136 o	146 o	147 o	143 o	143 o	176 o
Czechia	28 o	28 u	28 u	28 o	28 u	28 u	28 e	28 u	28 e	28 u
Denmark	166 o	182 o	181 o	181 o	178 o	176 o	176 o	176 o	177 o	169 o
Estonia	105 o	105 u	85 o	85 o	85 u	85 o	85 e	85 o	9 o	9 u
Finland	59 o	69 o	69 o	69 o	69 o	69 o	69 o	85 o	111 o	113 o
France	619 o	624 o	607 o	608 o	555 o	571 o	577 o	538 o	542 o	542 u
Germany	979 o	1 004 o	1 063 o	1 084 o	1 024 e	1 041 o	1 023 o	1 004 o	1 023 o	1 056 o
Hungary	29 o	23 o	23 o	23 o	27 o	28 o	25 o	23 o	19 o	19 u
Ireland	11 o	41 o	41 o	41 o	41 o	41 o	41 o	41 o	41 o	41 u
Italy	409 o	408 o	412 o	396 o	402 o	418 o	396 o	417 o	419 o	419 u
Lithuania	8 o	9 o	7 o	7 o	17 o	21 o	19 e	20 o	21 o	21 u
Luxembourg	9 o	9 o	9 u	9 u	9 o	9 o	9 e	9 o	9 o	9 u
Netherlands	338 e	338 o	393 o	393 o	394 o	394 o	394 o	394 u	394 e	394 u
Norway	50 o	50 o	50 o	47 o	46 o	43 o	43 e	44 o	46 o	46 u
Poland	22 o	30 o	43 o	45 o	50 o	45 o	45 e	45 u	45 o	45 u
Portugal	42 o	41 o	41 o	41 o	41 o	41 u	40 o	40 o	40 o	40 u
Serbia								15 o	16 o	16 u
Slovakia	10 o	6 o	6 o	6 u	6 u	6 u	7 o	6 o	7 o	7 u
Spain	117 o	121 o	121 o	121 o	121 o	133 o	133 o	133 o	133 o	149 o
Sweden	564 o	567 o	566 o	568 o	623 o	386 o	336 o	438 o	478 o	478 u
Switzerland	212 o	212 u	212 o	211 o	211 o	203 o	198 o	198 o	198 o	198 u
UK	514 e	545 e	568 e	655 e	717 e	725 e	765 o	789 o	800 o	800 u
European Union	3 907	4 000	4 087	4 099	4 074	3 876	3 793	3 870	3 858	3 930
Middle East	15	15	15	15	15	15	15	35	245	259
Qatar	15 u	15 u	15 u	15 u	15 u	15 u	15 u	15 u	15 u	15 u
United Arab Em								20 e	230 o	244 o
N America	1 170	1 169	1 157	1 100	1 101	1 098	1 065	1 028	989	989
Canada	46 o	46 o	40 o	40 o	40 o	40 o	40 o	38 u	38 u	38 u
Greenland	1 u	1 u	1 u	1 u	1 u	1 u	1 u	1 u	1 e	1 u
USA	1 124 o	1 123 e	1 117 e	1 060 e	1 061 e	1 058 e	1 025 e	990 o	950 o	950 o
Oceania									20	20
Australia									19 u	19 u
New Caledon									1 e	1 u
S America	2	2	2	2	4	12	13	14	16	15
Brazil	2 u	2 u	2 u	2 u	4 u	12 u	13 u	14 u	14 u	13 o
Colombia									2 o	2 u

Renewable municipal waste

Déchets municipaux renouvelables

Residuos municipales renovables

PROD (GWh)	2016	2017	2018	2019	2020	2021	2022	2023	2024
World	51 681	56 693	61 783	67 703	72 409	85 921	93 294	98 886	104 913
Africa								7	41
Ethiopia								7 o	41 o
Asia	20 134	24 472	28 717	35 834	40 111	52 445	59 887	65 818	70 918
China	15 296 o	19 438 o	23 264 o	30 350 u	34 400 u	45 900 u	52 700 u	57 800 u	62 000 o
Chinese Taipei	1 698 u	1 671 e	1 783 u	1 817 u	1 785 u	1 802 u	1 803 o	1 809 o	1 819 o
India	290 u	301 u	417 u	579 u	929 u	1 536 u	1 910 u	2 280 u	2 598 u
Indonesia	3 u	295 u	311 u	11 u	9 u	6 u	22 u	31 u	30 o
Japan	1 828 o	1 695 o	1 811 o	1 907 o	1 770 o	1 855 o	2 005 o	1 929 o	2 449 o
Korea Rep	361 o	422 o	466 o	451 o	529 o	590 o	375 o	489 o	504 o
Malaysia	8 e	19 e	8 e	9 e	9 e	9 e	9 e	9 e	9 e
Maldives				0 u	0 u	0 u	0 u	0 u	0 u
Myanmar		1 e	1 u	1 u	1 u	1 u	1 u	1 u	1 u
Singapore	627 u	590 u	566 u	579 u	504 u	502 u	828 u	650 u	656 u
Sri Lanka					1 u	35 u	35 u	36 u	34 o
Thailand	23 u	37 u	76 u	116 u	160 u	195 u	155 u	697 u	712 u
Viet Nam	0 e	3 e	14 u	14 u	14 u	14 u	44 u	87 u	105 u
C America + Carib	18	12	13	9	5	13	13	13	13
Aruba	5 u	0 o	0 o						
Martinique	14 e	12 e	13 e	9 e	5 e	13 e	13 e	13 e	13 u
Eurasia	175	170	174	213	215	478	933	949	1 000
Azerbaijan	175 o	170 o	162 o	196 o	201 e	193 o	205 u	223 e	233 o
Türkiye			11 o	17 o	15 o	284 o	728 o	726 o	767 o
Europe	22 518	23 525	24 175	24 203	24 634	25 516	25 351	25 038	25 013
Andorra	14 o	17 o	21 o	22 o	20 e	17 u	19 e	17 e	16 o
Austria	330 o	316 o	336 o	358 o	328 o	354 o	354 o	369 o	348 o
Belgium	881 o	916 o	909 o	856 o	904 o	950 o	1 002 o	991 o	1 041 o
Bulgaria			81 o	44 o	2 o				
Czechia	99 o	114 o	100 o	105 o	119 o	127 o	130 o	150 o	155 o
Denmark	861 o	884 o	861 o	964 o	945 o	971 o	787 o	712 o	742 o
Estonia	64 o	57 o	46 o	64 o	75 o	58 o	41 o	53 o	57 o
Finland	519 o	556 o	662 o	610 o	513 o	582 o	588 o	441 o	453 o
France	2 122 o	2 205 o	2 202 o	2 173 o	2 137 o	2 125 o	2 108 o	2 064 o	2 150 o
Germany	5 930 o	5 956 o	6 163 o	5 806 o	5 820 o	5 792 o	5 627 o	5 701 o	5 533 o
Hungary	245 o	159 o	162 o	137 o	167 o	161 o	130 o	118 o	100 o
Ireland	76 o	151 o	330 o	320 o	326 o	351 o	347 o	334 o	343 o
Italy	2 415 o	2 384 u	2 371 o	2 369 o	2 330 o	2 308 o	2 326 o	2 336 o	2 249 o
Lithuania	47 o	73 o	48 o	48 o	71 o	142 o	156 o	230 o	251 o
Luxembourg	42 o	47 o	47 o	47 o	43 o	43 o	42 o	34 o	42 o
Netherlands	2 007 o	1 904 o	2 172 o	2 082 o	2 193 o	2 208 o	2 225 o	1 982 o	1 883 o
Norway	192 o	214 o	171 o	214 o	210 o	185 o	205 o	213 o	211 o
Poland	12 o	81 o	85 o	105 o	182 o	354 o	302 o	304 o	301 o
Portugal	305 o	360 o	327 o	349 o	320 o	343 o	309 o	299 o	360 o
Serbia								3 o	52 o
Slovakia	26 o	22 o	16 o	29 o	43 o	32 o	50 o	45 o	38 o
Spain	735 o	772 o	755 o	770 o	703 o	855 o	864 o	841 o	846 o
Sweden	1 681 o	1 778 o	1 656 o	1 767 o	1 646 o	1 813 o	1 761 o	1 381 o	1 287 o
Switzerland	1 175 o	1 174 o	1 164 o	1 173 o	1 178 o	1 108 o	1 087 o	1 045 o	1 092 u
UK	2 740 o	3 386 u	3 490 u	3 792 u	4 359 u	4 636 u	4 894 u	5 376 u	5 463 u
European Union	18 397	18 734	19 329	19 003	18 866	19 570	19 146	18 384	18 178
Middle East	105	110	114	93	106	106	106	298	1 379
Israel	8 u	8 u	8 u						
Qatar	97 u	102 u	106 u	93 u	106 u	106 u	106 u	106 u	106 u
United Arab Em							0 o	192 e	1 273 o
N America	8 723	8 396	8 583	7 344	7 327	7 335	6 960	6 717	6 502
Canada	186 o	200 o	187 o	186 o	176 o	176 o	165 o	164 o	158 o
Greenland	13 e	13 e	14 e	15 e	14 e	14 e	12 e	11 e	11 u
USA	8 524 o	8 183 o	8 382 o	7 143 o	7 137 o	7 145 o	6 783 o	6 542 o	6 333 o
S America	7	7	7	7	11	29	44	47	48
Brazil	7 u	7 u	7 u	7 u	11 u	29 u	44 u	47 u	48 u

Renewable industrial waste

Déchets industriels renouvelables

Residuos industriales renovables

CAP (MW)	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
World	180	209	213	209	226	230	246	239	239	239
Europe	180	209	213	209	226	230	246	239	239	239
Belgium	31 u	32 u	34 u	38 u	37 u	36 u	36 u	36 o	36 e	36 u
Germany	3 o	3 u	3 u	3 u	3 u	34 o	35 o	35 o	35 e	35 u
Italy	11 u	13 u	16 u	17 u	18 u	20 u	20 o	20 o	20 o	20 u
Poland	135 u	160 u	159 u	150 u	167 u	139 u	154 o	147 o	147 o	147 u
Serbia		1 u	1 u	1 u	1 u	1 u	1 u	1 u	1 e	1 u
European Union	180	208	212	208	225	229	245	238	238	238

Renewable industrial waste

Déchets industriels renouvelables

Residuos industriales renovables

PROD (GWh)	2016	2017	2018	2019	2020	2021	2022	2023	2024
World	1 594	1 542	1 518	1 697	1 947	1 713	1 549	1 440	1 439
Europe	1 594	1 542	1 518	1 697	1 947	1 713	1 549	1 440	1 439
Austria	34 u	23 u	23 u	23 u	23 u	23 u	23 o	23 o	23 e
Belgium	193 u	215 u	223 u	234 u	217 u	220 u	212 o	172 u	187 u
Germany	19 u	21 u	23 o	21 o	18 u	231 o	236 o	117 u	114 u
Italy	67 u	83 u	90 u	99 u	108 u	130 u	123 o	134 o	165 u
Poland	1 281 u	1 196 u	1 154 u	1 317 u	1 577 u	1 104 u	951 o	991 o	946 u
Serbia		4 o	5 o	4 o	4 u	4 u	5 o	3 o	4 o
Ukraine		0 o							
European Union	1 594	1 538	1 513	1 693	1 943	1 709	1 545	1 437	1 435

Solid biofuels

Biocombustibles solides

Biocombustibles sólidos

CAP (MW)	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
World	74 338	78 270	83 020	85 589	91 033	94 969	99 814	102 825	106 401	108 250
Africa	1 511	1 624	1 708	1 709	1 740	1 793	1 809	1 866	2 043	2 043
Angola	51 u	51 u	51 u	51 u	51 u	51 u	51 u	51 u	51 u	51 u
Burkina Faso									10 o	10 o
Burundi	4 o	4 o	4 o	4 o	4 o	4 o	4 o	4 o	4 o	4 o
Chad	2 o	2 o	2 o	2 o	2 o	2 e	2 e	2 e	2 e	2 e
Congo DR	0 u	2 u	3 u	3 e	3 e	3 e	3 e	3 e	13 e	13 e
Congo Rep	12 u	12 u	12 u	12 u	12 u	12 u	12 u	12 u	12 u	12 u
Egypt	67 o	67 o	67 o	67 e	67 u	67 u	67 u	67 u	67 u	67 u
Eswatini	106 o	106 o	106 o	106 o	106 o	106 o	106 o	106 o	106 o	106 o
Ethiopia	145 o	205 o	265 o	265 o	265 o	310 o	310 u	310 u	310 e	310 o
Ghana	8 u	8 u	8 u	8 u	8 u	8 u	8 u	8 u	8 u	8 u
Kenya	82 u	83 u	86 u	86 u	97 u	97 u	97 u	97 u	172 u	172 u
Liberia	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u
Madagascar	0 o	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u
Malawi	19 o	19 o	19 o	19 o	19 o	19 o	19 o	19 o	19 o	19 o
Mali	5 u	40 u	40 u	40 u	40 u	40 u	40 u	40 u	40 u	40 u
Mauritius	87 o	87 o	87 o	87 o	87 o	87 o	87 o	87 o	87 o	87 o
Mozambique	73 o	73 o	73 o	75 o	75 o	75 o	75 o	75 o	75 o	75 o
Namibia	0 o	0 o	0 o	0 o	0 o	0 o	0 o	0 o	0 o	0 o
Nigeria	9 u	9 u	9 u	9 u	13 u	21 u	21 u	21 u	21 u	21 u
Reunion	42 e	42 e	42 e	42 e	42 e	42 e	58 e	114 e	196 e	196 e
Rwanda	1 u	1 u	1 e	1 e	1 e	1 e	1 e	1 e	1 e	1 e
Senegal	49 o	49 o	49 o	49 o	49 o	49 o	49 o	49 o	49 o	49 o
Sierra Leone	34 u	34 u	34 u	34 e	34 e	34 e	34 e	34 e	34 e	34 e
South Africa	242 u	242 u	242 u	242 e	242 e	242 e	242 e	242 e	242 e	242 e
Sudan	199 u	199 u	199 u	199 u	199 u	199 u	199 u	199 u	199 u	199 u
Tanzania	67 o	70 o	70 o	70 o	70 o	70 o	70 o	70 o	70 o	70 o
Uganda	65 u	76 u	96 u	96 o	112 o	112 o	112 o	113 o	113 o	113 o
Zambia	43 u	43 e	43 e	43 e	43 e	43 o	43 o	43 o	43 o	43 o
Zimbabwe	100 u	100 u	100 u	100 u	100 u	100 u	100 u	100 o	100 o	100 o
Asia	23 854	26 179	28 738	31 273	36 141	39 334	42 224	43 693	45 750	47 197
Bangladesh	40 u	40 u	40 u	40 u	40 u	40 u	40 u	40 u	40 u	40 u
Cambodia	54 u	74 u	74 u	74 u	67 u	65 u	74 u	72 u	72 u	72 u
China	6 050 o	7 140 o	8 030 o	9 729 o	13 300 o	15 590 o	16 230 o	16 880 o	17 090 o	17 400 o
China HK SAR		28 e	28 e	28 e	28 e	28 e	28 u	28 u	28 u	28 u
Chinese Taipei	71 o	71 o	71 o	71 o	71 o	71 o	71 o	61 o	61 o	61 o
India	8 746 o	9 258 u	9 965 o	10 046 o	10 331 o	10 361 u	10 395 u	10 447 u	10 913 u	10 942 u
Indonesia	1 703 o	1 741 o	1 759 u	1 764 u	1 767 u	2 121 u	2 925 u	3 201 u	2 906 u	3 027 u
Japan	678 u	1 044 u	1 433 u	1 879 u	2 219 u	2 838 u	4 129 u	4 595 u	5 441 u	6 443 u
Korea Rep	1 179 o	1 799 o	1 835 o	1 992 o	2 447 o	2 011 o	2 011 o	2 032 o	2 763 o	2 777 u
Lao PDR	40 o	40 u	123 u	123 u	123 u	123 u	123 u	123 u	123 u	123 u
Malaysia	1 462 u	732 u	734 u	774 u	774 u	774 u	774 u	774 u	774 u	774 u
Myanmar	48 u	50 u	55 u	57 u	57 u	57 u	57 u	57 u	57 e	57 u
Nepal	7 u	7 u	7 u	7 u	6 u	6 o	6 o	6 o	6 o	6 u
Pakistan	365 u	365 u	423 u	423 u	423 u	423 u	423 u	423 u	423 u	423 u
Philippines	280 u	305 u	358 u	410 u	527 u	533 u	648 u	629 u	751 u	766 o
Singapore	41 u	41 u	41 u	37 u	35 u	47 u	36 u	47 u	54 u	58 u
Sri Lanka	24 o	26 o	27 o	40 o	40 o	40 o	40 o	44 o	44 o	44 u
Thailand	2 815 u	3 157 u	3 373 u	3 410 u	3 517 u	3 852 u	3 852 u	3 870 u	3 798 u	3 750 u
Viet Nam	252 u	262 u	364 u	371 u	371 u	355 u	364 u	364 u	406 u	406 u
C America + Carib	2 245	2 393	2 557	2 484	2 607	2 447	2 391	2 424	2 424	2 450
Belize	28 u	36 u	36 u	36 u	36 u	36 u	36 u	36 u	36 u	36 u
Costa Rica	45 o	45 o	57 o	76 o	76 o	76 o	76 o	76 o	76 o	76 o
Cuba	405 e	442 e	464 e	369 e	476 e	480 e	424 e	424 e	424 e	424 u
Dominican Rep	18 e	79 e	79 e	79 e	79 e	79 e	79 e	79 e	79 e	79 o
El Salvador	252 o	264 o	299 o	294 o	294 o	295 o	295 u	295 o	295 o	295 o
Guadeloupe	30 e	30 e	30 e	30 e	47 e	47 e	47 e	47 u	47 u	47 o
Guatemala	990 o	1 022 o	1 075 o	1 030 o	1 030 o	864 o	864 o	864 o	864 o	864 o
Honduras	209 e	209 e	209 e	221 e	221 e	221 e	221 e	221 e	221 e	247 e
Jamaica	32 e	32 e	32 u	32 u	32 u	32 u	32 u	32 u	32 u	32 u
Martinique			40 u	40 u	40 u	40 u	40 u	40 u	40 u	40 o
Nicaragua	177 e	177 e	177 o	218 o	218 o	218 u	218 u	218 u	218 e	218 u
Panama	60 u	60 u	60 u	60 u	60 u	60 u	60 u	92 e	92 e	92 u
St Lucia	0 e	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 o
Trinidad Tobago	0 e									
Eurasia	81	109	155	240	359	601	728	802	812	812
Georgia								0 u	0 u	0 u
Russian Fed	26 u	26 u	26 u	26 u	27 u	110 u	112 u	112 u	112 u	112 u
Türkiye	55 o	83 o	129 o	214 o	332 o	491 u	616 o	690 o	700 o	700 u

Solid biofuels

Biocombustibles solides

Biocombustibles sólidos

CAP (MW)	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Europe	17 202	18 052	20 061	20 522	20 479	20 767	21 864	22 649	23 916	23 558
Austria	917 u	838 u	824 o	813 u	816 u	765 e	784 e	805 o	748 o	776 u
Belarus	13 o	13 o	16 o	16 o	86 o	83 o	101 o	101 u	101 u	101 e
Belgium	535 u	527 u	492 u	501 u	527 u	412 u	458 u	394 o	203 u	318 u
Bosnia Herzg			0 o	1 o	1 o	9 o	9 u	9 o	9 e	9 u
Bulgaria	19 o	23 o	33 u	24 u	15 o	13 u	40 u	40 u	54 u	54 u
Croatia	26 o	42 o	65 o	76 o	80 o	95 e	101 o	97 o	98 o	98 u
Czechia	376 u	402 u	385 u	434 o	452 u	456 u	455 e	417 u	454 e	454 u
Denmark	1 032 u	1 501 u	1 485 u	1 681 e	1 777 u	1 848 e	1 707 e	1 668 u	1 668 e	1 668 u
Estonia	165 o	165 o	165 o	180 o	200 o	200 o	200 o	200 o	974 o	974 u
Finland	1 747 o	1 966 o	1 966 o	1 963 o	2 442 o	2 398 o	3 176 o	3 491 o	3 578 o	3 587 o
France	612 o	624 o	828 o	875 o	810 o	899 o	911 o	1 040 o	1 060 o	1 082 o
Germany	1 597 o	1 598 u	1 582 o	1 595 o	1 568 o	1 553 o	1 557 o	1 555 o	1 580 e	1 600 u
Greece	2 u	3 u	12 o	13 o	14 o	16 e	16 o	17 o	20 o	24 o
Hungary	322 o	386 o	414 o	402 o	397 o	438 o	424 o	418 o	530 o	530 u
Ireland	5 u	5 u	5 u	7 o	7 o	7 u	7 e	7 u	125 e	125 u
Italy	674 u	671 u	717 u	711 u	708 u	682 u	681 o	675 o	661 o	596 o
Latvia	81 o	94 o	97 o	97 u	96 u	95 e	90 e	86 o	87 e	73 u
Lithuania	39 o	45 o	62 o	63 o	63 o	58 e	62 e	112 o	112 o	141 o
Luxembourg	4 o	15 o	15 o	35 o	35 o	35 u	36 o	73 o	75 o	75 u
Netherlands	210 e	218 o	223 o	220 o	272 o	284 o	298 o	975 o	975 o	295 u
North Macedonia			1 o	2 o	2 u	3 o	3 u	3 u	3 e	3 u
Norway	27 u	27 u	27 u	27 u	20 u	27 u	27 u	30 u	36 e	36 u
Poland	592 u	549 u	576 u	582 u	567 u	664 u	740 u	708 u	673 o	735 u
Portugal	477 o	471 o	536 o	590 o	603 o	603 e	593 e	593 u	594 e	589 u
Romania	107 u	119 u	119 u	119 u	136 u	109 u	161 o	134 o	138 o	138 u
Serbia	1 u	1 u	1 u	2 u	2 u	2 u	2 u	2 u	2 u	2 u
Slovakia	150 o	149 o	148 o	138 o	137 o	163 e	180 o	115 o	152 o	152 u
Slovenia	30 o	33 o	32 o	34 o	35 o	36 e	36 o	36 o	36 o	36 u
Spain	672 o	672 o	672 o	718 o	868 o	867 e	867 e	867 e	867 o	883 o
Sweden	3 769 u	3 706 u	3 918 u	3 834 u	2 942 u	3 093 e	3 274 e	3 089 u	3 089 e	3 089 u
UK	2 963 e	3 150 e	4 593 e	4 684 e	4 693 e	4 702 e	4 714 e	4 714 e	5 015 o	5 015 u
Ukraine	39 o	39 o	52 u	87 e	109 e	152 u	152 u	178 u	200 u	300 u
European Union	14 160	14 823	15 372	15 704	15 566	15 789	16 857	17 612	18 551	18 092
Middle East						0	0	0	0	0
Yemen						0 o	0 u	0 u	0 u	0 u
N America	12 430	12 415	12 182	11 620	11 618	11 205	11 104	11 033	10 743	10 605
Canada	2 385 u	2 465 u	2 477 u	2 233 u	2 279 u	2 298 u	2 318 u	2 318 u	2 318 u	2 318 u
Mexico	796 e	816 e	816 e	816 e	816 e	816 e	816 u	817 u	817 e	817 u
USA	9 249 e	9 134 e	8 889 e	8 571 e	8 523 e	8 091 e	7 970 e	7 898 u	7 608 u	7 470 u
Oceania	835	851	851	851	846	854	854	854	854	816
Australia	674 o	674 u	674 u	674 u	674 u	674 u	674 u	674 u	674 u	651 u
Fiji	47 u	59 u	59 u	59 u	59 u	66 u	66 u	66 u	66 u	66 u
New Zealand	99 o	104 o	104 o	104 o	98 o	98 o	98 o	98 o	98 o	83 o
Papua N Guin	15 u	15 u	15 u	15 u	15 u	15 u	15 u	15 u	15 u	15 o
Samoa					1 u	1 u	1 u	1 u	1 u	1 u
Solomon Is	1 u	1 u	1 u	1 u	1 u	1 u	1 u	1 u	1 u	1 o
S America	16 180	16 646	16 768	16 889	17 243	17 969	18 839	19 504	19 859	20 769
Argentina	204 e	218 e	218 e	220 e	271 e	291 e	291 e	296 e	296 u	350 u
Bolivia	131 e	115 e	139 e	144 e	144 e	143 e	192 e	269 o	269 o	265 u
Brazil	14 370 u	14 740 u	14 829 u	14 966 u	15 269 u	15 897 u	16 699 u	16 935 u	17 250 u	17 796 o
Chile	410 u	444 u	444 u	399 u	395 u	430 u	430 u	463 u	462 u	706 u
Colombia	253 u	306 u	316 u	316 u	319 u	342 e	343 e	376 e	376 u	406 u
Ecuador	144 o	144 o	144 o	144 o	144 o	144 o	144 o	144 o	155 o	156 o
Fr Guiana	2 u	2 u	2 u	2 u	2 u	10 u	10 u	16 u	16 u	16 u
Guyana	45 u	45 u	45 u	45 u	45 u	45 u	45 u	45 u	45 u	45 u
Paraguay	20 u	20 u	20 u	20 u	20 u	20 u	20 u	20 u	20 u	20 u
Peru	176 e	186 e	186 e	208 e	208 e	177 e	192 e	155 u	185 o	223 o
Suriname	2 o	2 o	2 o	2 o	2 o	2 o	2 o	2 u	2 u	2 u
Uruguay	415 u	415 u	415 u	415 u	415 u	415 u	415 u	729 u	729 u	729 o
Venezuela	10 u	10 u	10 u	10 u	10 u	56 u	56 u	56 u	56 u	56 u

Solid biofuels

Biocombustibles sólides

Biocombustibles sólidos

PROD (GWh)	2016	2017	2018	2019	2020	2021	2022	2023	2024
World	326 303	341 899	356 851	377 715	394 381	424 675	430 139	437 385	448 349
Africa	3 189	3 048	3 231	3 231	3 095	3 046	3 086	3 416	3 786
Angola	155 u	200 u	200 u	200 u	200 u	200 u	200 u	200 u	200 u
Burkina Faso									4 o
Burundi	7 o	7 o	6 o	5 o	6 o	5 o	4 o	4 o	4 o
Chad	6 e	6 e	6 e	5 e	5 e	6 e	5 e	5 e	6 e
Congo DR	0 e	6 e	8 e	8 e	8 e	8 e	8 e	8 e	47 e
Congo Rep	32 e	32 e	32 e	32 e	32 e	32 e	32 e	32 e	32 e
Egypt	311 u	308 o	316 u	307 o	317 o	319 o	311 o	305 u	305 e
Eswatini	181 e	180 e	187 e	187 e	193 e	192 e	183 e	187 e	184 e
Ethiopia	28 u	23 e	26 u	30 u	27 u	16 o	8 o	8 e	8 o
Ghana	19 e	19 e	19 e	19 e	19 e	19 e	19 e	19 e	19 e
Kenya	194 e	151 e	163 e	144 e	194 e	194 e	194 e	194 e	194 e
Liberia	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e
Madagascar	1 e	1 e	1 e	1 e	1 e	1 e	1 e	1 e	1 e
Malawi	48 e	44 e	47 e	46 e	48 e	48 e	47 e	43 e	48 e
Mali	32 e	33 e	34 e	36 e	36 e	36 e	36 e	35 e	34 e
Mauritius	497 o	463 o	437 o	440 o	384 o	350 o	283 o	309 o	299 o
Mozambique	129 o	137 o	105 o	107 o	105 o	78 o	65 o	65 o	65 o
Namibia	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e
Nigeria	22 e	28 e	30 e	27 e	41 e	61 e	60 e	62 e	60 e
Reunion	244 o	261 o	196 o	240 o	221 o	217 o	232 o	522 o	885 o
Rwanda	2 e	2 e	2 e	2 e	2 e	2 e	2 e	2 e	2 e
Senegal	58 o	65 e	66 e	67 e	62 e	61 e	61 e	61 e	63 e
Sierra Leone	10 e	10 e	10 e	10 e	10 e	10 e	10 e	14 e	14 e
South Africa	301 e	348 e	386 e	385 e	364 e	344 e	358 e	359 e	335 e
Sudan	120 u	130 e	122 u	109 u	103 u	86 u	89 u	87 u	87 u
Tanzania	139 e	145 e	148 e	158 e	153 e	152 e	153 e	161 e	155 e
Uganda	282 e	256 e	317 e	307 e	295 e	385 e	486 e	487 e	485 e
Zambia	63 e	67 e	71 e	72 e	69 e	66 e	70 e	73 e	76 e
Zimbabwe	306 e	125 e	295 e	288 e	199 e	159 e	167 e	171 e	173 e
Asia	101 823	112 770	122 446	137 884	151 022	172 498	188 695	204 705	203 861
Bangladesh	21 u	41 u	29 u	33 u	33 u	30 u	10 u	11 u	13 u
Cambodia	94 e	100 e	104 u	125 u	96 u	84 u	51 u	126 u	128 u
China	32 244 o	38 129 e	40 833 o	48 100 u	59 700 u	67 200 u	71 600 u	75 700 u	77 400 o
China HK SAR	50 o	47 o	46 o	46 o	47 o	52 o	58 o	58 u	58 u
Chinese Taipei	186 u	169 e	166 u	151 u	141 u	153 u	118 o	171 o	174 o
India	17 898 u	16 334 e	18 280 u	20 302 u	19 701 u	20 685 u	22 479 u	22 169 u	22 773 u
Indonesia	10 044 e	11 203 e	11 544 u	11 548 u	11 555 u	14 025 u	19 555 u	21 432 u	20 181 u
Japan	15 497 u	18 216 u	19 202 u	23 558 u	25 990 u	32 364 u	35 343 u	39 552 u	40 591 u
Kazakhstan	11 u	17 o	26 o	26 o	27 e	27 u			
Korea Rep	5 827 e	5 798 e	7 452 o	6 822 o	7 251 o	7 995 o	8 110 o	9 390 o	9 392 o
Lao PDR	55 u	73 e	207 u	364 u	379 u	354 u	512 u	520 u	511 u
Malaysia	333 e	410 e	967 e	1 774 e	2 499 e	3 413 e	3 413 e	3 413 e	3 413 e
Myanmar	210 u	227 u	248 u	257 u	258 u	253 u	259 u	259 u	259 u
Nepal	10 u	9 u	12 u	12 u	6 u	7 u	7 u	7 u	7 u
Pakistan	2 712 e	3 269 e	2 894 e	2 728 e	2 820 e	3 183 e	3 183 e	3 183 e	944 e
Philippines	710 e	997 e	1 089 u	1 024 u	1 245 u	1 429 u	1 309 u	1 396 u	1 433 u
Singapore	155 u	157 u	159 u	162 u	159 u	223 u	171 u	230 u	298 u
Sri Lanka	72 u	67 u	87 u	118 u	98 u	93 u	47 u	117 u	104 o
Thailand	15 331 u	17 098 u	18 565 u	20 228 u	18 607 u	20 570 u	21 954 u	25 808 u	25 090 u
Viet Nam	365 e	406 e	536 u	506 u	410 u	360 u	517 u	1 163 u	1 093 u
C America + Carib	6 167	5 861	6 613	7 783	6 551	6 951	6 214	6 776	6 369
Belize	115 u	120 u	137 o	163 e	270 u	133 o	174 o	141 o	141 o
Costa Rica	86 o	99 o	88 o	84 o	70 o	79 o	67 o	67 o	72 o
Cuba	688 e	624 e	445 u	520 u	548 e	434 u	278 u	205 e	87 u
Dominican Rep	96 e	356 e	445 e	451 e	409 e	443 e	426 e	445 e	455 u
El Salvador	682 o	674 o	718 o	797 o	786 o	881 o	790 o	770 o	781 o
Guadeloupe	50 e	63 e	56 o	47 e	60 e	230 e	222 e	243 e	177 u
Guatemala	2 867 o	2 163 o	2 923 o	3 436 o	2 486 o	2 576 o	2 075 o	2 690 o	2 568 o
Honduras	746 e	797 e	719 e	961 e	708 e	799 e	797 e	817 e	687 e
Jamaica	24 e	24 e	13 o	21 u	17 u	17 u	10 e	10 o	9 u
Martinique			76 e	239 e	221 e	228 e	251 e	240 e	242 u
Nicaragua	533 e	666 e	702 o	841 e	733 e	899 e	890 e	915 e	925 o
Panama	279 e	272 e	291 e	223 e	241 e	232 e	234 e	234 e	225 e
St Lucia	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u
Trinidad Tobago	0 e								
Eurasia	106	397	547	977	1 735	2 423	3 090	3 674	4 090
Russian Fed	32 e	84 e	73 o	109 o	393 o	393 u	393 u	393 e	393 u
Türkiye	74 o	313 o	474 o	868 o	1 342 o	2 030 u	2 697 o	3 281 o	3 697 o

Solid biofuels

Biocombustibles sólides

Biocombustibles sólidos

PROD (GWh)	2016	2017	2018	2019	2020	2021	2022	2023	2024
Europe	91 305	94 625	99 077	105 675	108 693	119 826	111 448	101 899	106 978
Austria	3 749 u	3 912 u	3 943 u	3 663 u	3 611 u	3 500 u	3 716 o	3 492 o	3 625 e
Belarus	112 u	117 e	131 u	263 u	373 u	337 u	322 u	313 e	400 u
Belgium	3 278 u	3 601 u	3 262 u	3 057 u	3 103 u	2 543 u	2 630 o	1 576 u	1 391 u
Bosnia Herzg		1 o	1 o	1 o	5 o	36 u	24 o	31 o	30 o
Bulgaria	163 u	180 o	1 280 u	1 546 u	1 472 o	2 373 u	2 053 o	1 708 o	1 523 u
Croatia	194 o	216 o	313 u	477 o	559 o	660 u	720 o	706 o	650 o
Czechia	2 067 o	2 213 o	2 121 o	2 399 o	2 499 o	2 665 o	2 659 o	2 439 o	2 654 u
Denmark	3 483 o	4 797 o	4 417 o	4 353 o	4 302 o	7 133 o	5 679 o	4 992 o	5 838 o
Estonia	840 o	996 u	1 223 o	1 260 o	1 746 o	1 694 o	1 523 o	1 321 o	1 277 o
Finland	10 602 u	10 890 u	11 821 u	12 317 u	10 760 u	12 667 u	11 908 o	10 642 o	9 758 u
France	3 408 o	3 462 o	3 806 o	3 882 o	3 854 u	4 423 u	4 547 u	4 742 u	5 303 u
Germany	10 779 u	10 623 u	11 045 o	11 018 o	11 288 u	10 507 o	10 427 o	11 000 u	10 689 u
Greece	5 u	10 u	12 u	25 o	50 o	42 u	52 o	55 o	67 o
Hungary	1 493 o	1 645 o	1 798 o	1 769 o	1 664 o	1 775 o	1 693 o	1 126 o	1 412 o
Ireland	395 u	381 u	334 u	346 o	430 u	471 u	508 o	347 o	514 o
Italy	4 058 o	4 149 u	4 101 u	4 142 u	4 362 u	4 399 u	4 235 o	3 305 o	3 975 u
Latvia	427 o	525 o	570 o	575 u	520 o	570 u	552 o	478 o	457 u
Lithuania	269 o	303 o	355 u	331 u	373 o	387 u	394 o	416 o	626 o
Luxembourg	25 u	52 u	95 u	160 u	266 u	285 u	288 o	289 o	346 u
Netherlands	2 436 o	2 439 o	1 489 o	2 845 o	5 777 o	7 842 o	6 755 o	4 926 o	4 285 e
Norway	28 u	24 u	16 u	24 u	23 u	29 u	32 o	35 o	24 u
Poland	5 632 u	4 112 u	4 179 u	5 124 u	5 355 u	5 294 u	4 983 o	5 383 o	5 011 u
Portugal	2 481 o	2 573 o	2 558 u	2 749 u	3 206 u	3 392 u	3 544 o	3 250 o	3 250 u
Romania	466 u	458 u	367 u	450 u	494 u	580 u	557 o	379 o	427 o
Serbia	5 o		8 u		16 u	15 o	16 o	14 o	17 o
Slovakia	1 129 o	1 080 o	1 070 o	1 130 o	1 120 o	1 325 o	1 049 o	963 o	1 062 o
Slovenia	136 o	155 o	142 o	151 o	155 o	169 o	162 o	196 o	168 o
Spain	4 048 o	4 365 o	4 221 o	3 885 o	4 541 o	5 095 o	4 932 o	4 047 o	4 207 o
Sweden	9 749 o	10 250 o	10 195 u	11 220 u	9 501 u	11 174 u	11 284 o	10 291 o	8 867 u
Switzerland	254 o	352 o	317 o	341 o	439 o	554 o	582 o	621 o	633 u
UK	19 514 o	20 626 u	23 772 u	25 970 u	26 545 o	27 607 o	23 432 u	21 569 u	27 212 u
Ukraine	80 o	116 e	125 o	195 o	284 o	284 u	190 u	1 246 u	1 281 u
European Union	71 312	73 389	74 717	78 874	81 008	90 964	86 850	78 069	77 381
N America	58 893	58 873	57 969	54 741	51 486	51 290	49 118	44 912	44 878
Canada	10 773 u	10 302 u	9 995 u	9 791 u	9 070 u	9 031 u	8 045 u	8 047 u	8 639 u
Mexico	1 303 e	1 837 e	2 081 u	1 916 u	1 800 u	1 468 u	1 266 u	957 u	949 u
USA	46 817 u	46 734 u	45 893 u	43 034 u	40 616 u	40 791 u	39 807 u	35 908 u	35 290 u
Oceania	3 037	2 843	2 846	2 758	2 600	2 619	2 414	2 241	2 490
Australia	2 451 u	2 251 u	2 259 u	2 152 u	1 990 u	1 993 u	1 817 u	1 688 u	1 912 u
Fiji	47 e	66 e	84 u	94 u	111 u	97 e	115 e	115 e	97 u
New Zealand	531 e	519 e	495 o	505 o	492 o	517 o	470 o	430 o	473 o
Papua N Guin	4 u	5 u	5 u	4 u	4 u	4 u	4 u	4 u	4 u
Samoa					0 e	5 u	5 u	0 e	0 u
Solomon Is	3 u	3 u	3 u	3 u	3 u	3 o	3 u	3 e	3 u
S America	61 783	63 482	64 122	64 665	69 200	66 022	66 073	69 761	75 897
Argentina	984 e	1 122 e	959 u	1 569 u	2 298 u	2 243 u	3 523 u	3 582 u	3 699 u
Bolivia	176 e	163 e	168 o	217 o	327 e	455 o	538 u	416 u	420 u
Brazil	49 520 e	51 008 e	52 171 e	52 433 e	55 934 e	52 380 e	52 101 u	54 312 u	58 090 u
Chile	5 945 e	6 003 e	5 621 u	5 326 u	5 169 u	5 063 u	4 528 u	5 646 u	6 064 u
Colombia	1 586 u	1 591 u	1 674 u	1 538 u	1 605 u	2 022 u	1 781 u	1 688 u	1 882 u
Ecuador	477 e	431 e	382 o	414 o	427 o	373 o	348 o	318 e	461 o
Fr Guiana	12 u	10 u	11 u	10 u	9 u	37 u	42 u	55 u	71 u
Guyana	36 e	28 e	19 u	17 u	19 u	19 e	16 u	16 u	8 u
Paraguay	134 e	128 e	131 e	130 e	128 u	100 u	189 u	193 u	227 u
Peru	433 e	393 e	403 e	467 e	533 e	528 e	522 e	391 u	489 u
Suriname	6 o	6 o	6 o	6 o	6 o	6 o	6 u	6 u	6 u
Uruguay	2 430 u	2 551 u	2 525 u	2 489 u	2 699 u	2 735 u	2 435 u	3 081 u	4 421 u
Venezuela	44 u	48 u	52 u	50 u	48 u	61 u	46 u	57 u	59 u

Bagasse Bagasse Bagazo

CAP (MW)	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
World	19 685	20 027	21 568	21 626	22 032	22 080	22 161	22 903	23 006	23 151
Africa	1 467	1 576	1 658	1 660	1 686	1 731	1 735	1 735	1 824	1 824
Angola	51 u	51 u	51 u	51 u	51 u	51 u	51 u	51 u	51 u	51 u
Burkina Faso									10 o	10 o
Burundi	4 o	4 o	4 o	4 o	4 o	4 o	4 o	4 o	4 o	4 o
Chad	2 o	2 o	2 o	2 o	2 o	2 o	2 e	2 e	2 e	2 e
Congo DR									10 o	10 o
Congo Rep	5 u	5 u	5 u	5 u	5 u	5 u	5 u	5 u	5 u	5 u
Egypt	67 o	67 o	67 o	67 e	67 u	67 u	67 u	67 u	67 u	67 u
Eswatini	106 o	106 o	106 o	106 o	106 o	106 o	106 o	106 o	106 o	106 o
Ethiopia	145 o	205 o	265 o	265 o	265 o	310 o	310 u	310 u	310 e	310 o
Kenya	82 u	83 u	86 u	86 u	97 u	97 u	97 u	97 u	172 u	172 u
Malawi	19 o	19 o	19 o	19 o	19 o	19 o	19 o	19 o	19 o	19 o
Mali	5 u	40 u	40 o	40 o	40 o	40 o	40 o	40 o	40 o	40 o
Mauritius	87 o	87 o	87 o	87 o	87 o	87 o	87 o	87 o	87 o	87 o
Mozambique	73 o	73 o	73 o	75 o	75 o	75 o	75 o	75 o	75 o	75 o
Nigeria	5 u	5 u	5 u	5 u	5 u	5 u	5 u	5 u	5 u	5 u
Reunion	42 e	42 e	42 e	42 e	42 e	42 e	46 e	44 e	39 e	39 e
Rwanda	1 u	1 u	1 e	1 e	1 e	1 e	1 e	1 e	1 e	1 e
Senegal	49 o	49 o	49 o	49 o	49 o	49 o	49 o	49 o	49 o	49 o
Sierra Leone	32 u	32 u	32 u	32 u	32 u	32 u	32 u	32 u	32 u	32 u
South Africa	242 u	242 u	242 u	242 e	242 e	242 e	242 e	242 e	242 e	242 e
Sudan	199 u	199 u	199 u	199 u	199 u	199 u	199 u	199 u	199 u	199 u
Tanzania	46 o	46 o	46 o	46 o	46 o	46 o	46 o	46 o	46 o	46 o
Uganda	65 u	76 u	96 u	96 o	112 o	112 o	112 o	113 o	113 o	113 o
Zambia	43 u	43 e	43 e	43 e	43 e	43 o	43 o	43 o	43 o	43 o
Zimbabwe	100 u	100 u	100 u	100 u	100 u	100 u	100 u	100 o	100 o	100 o
Asia	2 095	2 090	3 287	3 353	3 385	3 465	3 244	3 783	3 479	3 471
Bangladesh	40 u	40 u	40 u	40 u	40 u	40 u	40 u	40 u	40 u	40 u
Cambodia	16 u	36 u	36 u	36 u	27 u	27 u	27 u	27 u	27 u	27 u
Indonesia	219 o	219 o	219 o	219 u	219 u	240 u	260 u	270 u	270 u	270 u
Lao PDR	40 o	40 u	107 u	107 u	107 u	107 u	107 u	107 u	107 u	107 u
Myanmar	48 u	47 u	52 u	54 u	54 u	54 u	54 u	54 u	54 e	54 u
Nepal	6 u	6 u	6 u	6 u	6 u	6 o	6 o	6 o	6 o	6 u
Pakistan	314 u	314 u	372 u	372 u	372 u	372 u	372 u	372 u	372 u	372 u
Philippines	213 u	213 u	260 u	285 u	374 u	374 u	407 u	383 u	465 u	480 o
Sri Lanka								4 o	4 o	4 u
Thailand	958 u	924 u	1 842 u	1 874 u	1 826 u	1 901 u	1 618 u	2 167 u	1 740 u	1 717 u
Viet Nam	241 u	251 u	353 u	360 u	360 u	344 u	353 u	353 u	395 u	395 u
C America + Carib	2 154	2 272	2 430	2 361	2 467	2 306	2 251	2 284	2 284	2 305
Belize	28 u	36 u	36 u	36 u	36 u	36 u	36 u	36 u	36 u	36 u
Costa Rica	40 o	40 o	53 o	71 o	71 o	71 o	71 o	71 o	71 o	71 o
Cuba	404 e	441 e	463 e	369 e	475 e	479 e	424 e	424 e	424 o	424 o
Dominican Rep	18 e	48 e	48 u	48 u	48 u	48 e	48 e	48 e	48 e	48 o
El Salvador	252 o	264 o	294 o	294 o	294 o	295 o	295 u	295 o	295 o	295 o
Guadeloupe	30 e	30 e	30 e	30 e	30 e	30 e	30 e	30 u	30 u	30 o
Guatemala	989 o	1 021 o	1 074 o	1 029 o	1 029 o	863 o	863 o	863 o	863 o	863 o
Honduras	125 e	125 e	125 e	135 e	135 e	135 e	135 e	135 e	135 e	157 u
Jamaica	32 e	32 e	32 u	32 u	32 u	32 u	32 u	32 u	32 u	32 u
Martinique			40 u	40 u	40 u	40 u	40 u	40 u	40 u	40 o
Nicaragua	177 e	177 e	177 o	218 o	218 o	218 u	218 u	218 u	218 e	218 u
Panama	60 u	60 u	60 u	60 u	60 u	60 u	60 u	92 e	92 e	92 u
Trinidad Tobago	0 e									
Europe	2	2	2	2	2	2	2	2	2	2
Portugal	2 o	2 o	2 o	2 o	2 o	2 u	2 e	2 u	2 e	2 u
European Union	2	2	2	2	2	2	2	2	2	2
N America	976	985	985	985	985	984	984	984	984	984
Mexico	795 u	815 u	815 u	815 u	815 u	814 u	814 u	814 u	814 e	814 u
USA	181 e	170 e	170 e	170 e	170 e	170 e	170 e	170 o	170 u	170 u
Oceania	534	534	534	534	534	542	542	542	542	542
Australia	500 o	500 o	500 o	500 u	500 u	500 u	500 u	500 u	500 u	500 u
Fiji	34 u	34 u	34 u	34 u	34 u	42 u	42 u	42 u	42 u	42 u
S America	12 456	12 567	12 671	12 730	12 972	13 049	13 403	13 574	13 891	14 022
Argentina	153 e	153 e	153 e	155 e	155 e	155 e	155 e	155 e	155 u	169 u
Bolivia	131 e	115 e	139 e	144 e	144 e	143 e	192 e	269 o	269 o	265 u
Brazil	11 512 u	11 576 u	11 646 u	11 676 u	11 930 u	12 022 u	12 309 u	12 409 u	12 685 o	12 766 o
Colombia	253 u	306 u	316 u	316 u	319 u	336 e	338 e	370 u	370 u	370 u
Ecuador	144 o	144 o	144 o	144 o	144 o	144 o	144 o	144 o	155 o	156 o
Guyana	45 u	45 u	45 u	45 u	30 u	30 u	30 u	30 u	30 u	30 u
Paraguay	20 u	20 u	20 u	20 u	20 u	20 u	20 u	20 u	20 u	20 u
Peru	176 e	186 e	186 e	208 e	208 e	177 e	192 e	155 u	185 o	223 o
Uruguay	13 u	13 u	13 u	13 u	13 u	13 u	13 u	13 u	13 u	13 o
Venezuela	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u

Bagasse Bagasse Bagazo

PROD (GWh)	2016	2017	2018	2019	2020	2021	2022	2023	2024
World	60 875	61 108	67 721	70 615	70 402	67 578	63 824	72 219	70 162
Africa	3 047	2 897	3 076	3 080	2 933	2 864	2 855	2 906	2 897
Angola	155 u	200 u	200 u	200 u	200 u	200 u	200 u	200 u	200 u
Burkina Faso									4 o
Burundi	7 o	7 o	6 o	5 o	6 o	5 o	4 o	4 o	4 o
Chad	6 e	6 e	6 e	5 e	5 e	6 e	5 e	5 e	6 e
Congo DR									39 o
Congo Rep	13 e	13 e	13 e	13 e	13 e	13 e	13 e	13 e	13 e
Egypt	311 u	308 o	316 u	307 o	317 o	319 o	311 o	305 u	305 e
Eswatini	181 e	180 e	187 e	187 e	193 e	192 e	183 e	187 e	184 e
Ethiopia	28 u	23 e	26 u	30 u	27 u	16 o	8 o	8 e	8 o
Kenya	194 e	151 e	163 e	144 e	194 e	194 e	194 e	194 e	194 e
Malawi	48 e	44 e	47 e	46 e	48 e	48 e	47 e	43 e	48 e
Mali	11 e	12 e	13 e	15 e	15 e	15 e	15 e	14 e	13 e
Mauritius	497 o	463 o	437 o	440 o	384 o	350 o	283 o	309 o	299 o
Mozambique	129 o	137 o	105 o	107 o	105 o	78 o	65 o	65 o	65 o
Nigeria	13 e	15 e	15 e	15 e	15 e	15 e	15 e	15 e	15 e
Reunion	244 o	261 o	196 o	240 o	221 o	217 o	181 o	201 o	174 o
Rwanda	2 e	2 e	2 e	2 e	2 e	2 e	2 e	2 e	2 e
Senegal	58 o	65 e	66 e	67 e	62 e	61 e	61 e	61 e	63 e
Sierra Leone	6 e	6 e	6 e	6 e	6 e	6 e	6 e	10 e	10 e
South Africa	301 e	348 e	386 e	385 e	364 e	344 e	358 e	359 e	335 e
Sudan	120 u	130 e	122 u	109 u	103 u	86 u	89 u	87 u	87 u
Tanzania	71 e	77 e	79 e	90 e	89 e	88 e	88 e	90 e	93 e
Uganda	282 e	256 e	317 e	307 e	295 e	385 e	486 e	487 e	485 e
Zambia	63 e	67 e	71 e	72 e	69 e	66 e	70 e	73 e	76 e
Zimbabwe	306 e	125 e	295 e	288 e	199 e	159 e	167 e	171 e	173 e
Asia	9 544	10 186	15 248	15 987	14 505	15 619	15 167	19 466	16 044
Bangladesh	20 u	40 u	27 u	31 u	31 u	28 u	8 u	10 u	11 u
Cambodia	54 u	70 u	83 u	103 u	76 u	66 u	30 u	83 u	80 u
Indonesia	560 u	560 u	583 u	576 u	552 u	733 u	1 151 u	1 214 u	996 u
Lao PDR	55 u	73 e	89 u	85 u	81 u	76 u	186 u	190 u	189 u
Myanmar	209 u	207 u	228 u	237 u	238 o	233 u	239 u	239 u	239 u
Nepal	8 u	8 u	11 u	11 u	6 u	7 u	7 u	7 u	7 u
Pakistan	2 533 e	3 091 e	2 715 e	2 549 e	2 641 e	3 004 e	3 004 e	3 004 e	765 o
Philippines	562 u	767 u	875 u	811 u	1 003 u	1 138 u	925 u	1 116 u	1 192 u
Sri Lanka								23 u	14 o
Thailand	5 217 u	5 004 u	10 140 u	11 117 u	9 505 u	10 013 u	9 138 u	12 453 u	11 495 u
Viet Nam	326 e	367 e	498 u	467 u	372 u	321 u	478 u	1 125 u	1 054 u
C America + Carib	5 765	5 337	6 168	7 190	6 088	6 237	5 506	6 045	5 869
Belize	115 u	120 u	137 o	163 e	270 u	133 o	174 o	141 o	141 o
Costa Rica	75 o	88 o	77 o	72 o	59 o	67 o	56 o	55 o	60 o
Cuba	686 e	622 e	444 o	519 u	547 e	432 o	276 u	203 e	85 o
Dominican Rep	96 u	234 e	323 e	328 u	287 u	320 e	304 e	322 e	333 u
El Salvador	682 o	674 o	710 o	797 o	786 o	881 o	790 o	770 o	781 o
Guadeloupe	50 e	63 e	56 o	47 e	47 e	46 e	40 e	45 e	28 u
Guatemala	2 866 o	2 163 o	2 922 o	3 435 o	2 485 o	2 574 o	2 075 o	2 690 o	2 568 o
Honduras	359 e	410 e	419 e	505 e	394 e	408 e	408 e	420 e	471 e
Jamaica	24 e	24 e	13 o	21 u	17 u	17 u	10 e	10 o	9 u
Martinique			76 e	239 e	221 e	228 e	250 e	240 e	242 u
Nicaragua	533 e	666 e	702 o	841 e	733 e	899 e	890 e	915 e	925 o
Panama	279 e	272 e	291 e	223 e	241 e	232 e	234 e	234 e	225 e
Trinidad Tobago	0 e								
Europe	15	10	27	34	34	15	17	15	15
Portugal	15 o	10 o	27 u	34 u	34 u	15 u	17 o	15 o	15 u
European Union	15	10	27	34	34	15	17	15	15
N America	1 983	2 128	2 872	2 713	2 578	2 272	2 078	1 695	1 690
Mexico	954 u	1 236 u	2 006 u	1 875 u	1 770 u	1 437 u	1 235 u	925 u	916 u
USA	1 029 u	892 u	866 u	838 u	808 u	835 u	843 u	769 u	774 u
Oceania	1 855	1 535	1 493	1 364	1 277	1 302	1 201	1 159	1 328
Australia	1 810 u	1 484 u	1 440 u	1 305 u	1 214 u	1 250 u	1 141 u	1 102 u	1 279 u
Fiji	45 e	51 e	53 u	59 u	63 u	52 u	60 e	57 e	49 u
S America	38 666	39 015	38 837	40 246	42 988	39 268	37 000	40 934	42 320
Argentina	450 e	476 e	477 u	484 u	1 024 u	1 002 u	1 340 u	1 352 u	1 391 u
Bolivia	176 e	163 e	168 o	217 o	327 e	455 o	538 u	416 u	420 u
Brazil	35 236 o	35 656 o	35 435 u	36 827 u	38 776 u	34 629 u	32 250 u	36 532 u	37 410 u
Colombia	1 586 u	1 591 u	1 673 u	1 537 u	1 605 u	2 007 u	1 766 u	1 674 u	1 867 u
Ecuador	477 e	431 e	382 o	414 o	427 o	373 o	348 o	318 e	461 o
Guyana	36 e	28 e	18 u	17 u	18 u	12 u	11 u	10 u	5 u
Paraguay	134 e	128 e	131 e	130 e	128 u	100 u	90 u	94 u	130 u
Peru	433 e	393 e	403 e	467 e	533 e	528 e	522 e	391 u	489 u
Uruguay	94 u	103 u	96 u	104 u	103 u	101 u	88 u	89 u	89 u
Venezuela	44 u	48 u	52 u	50 u	48 u	61 u	46 u	57 u	59 u

Liquid biofuels

Biocarburants liquides

Biocombustibles líquidos

CAP (MW)	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
World	2 323	2 358	2 489	3 388	2 402	1 924	1 948	2 242	2 011	2 015
Africa	1	1	42	42	42	42	42	253	253	253
Burkina Faso	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 e	0 e
Liberia	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u
Mali	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u
Reunion	0 u	0 u	41 o	41 o	41 o	41 o	41 o	252 o	252 o	252 o
Tanzania	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u
Asia	360	359	348	1 020	950	487	487	487	430	433
Korea Rep	360 o	359 o	348 o	1 020 o	950 o	487 o	487 o	487 o	430 o	433 u
Eurasia	7	12	19	19	23	51	65	79	82	82
Türkiye	7 o	12 o	19 o	19 o	23 o	51 o	65 o	79 o	82 o	82 u
Europe	1 792	1 813	1 836	2 175	1 255	1 193	1 189	1 300	1 123	1 123
Austria	3 o	1 o	1 o	1 o	0 o	0 o	0 o	0 o	0 o	0 u
Belgium	45 o	45 o	45 o	45 u	23 o	19 o	29 o	33 o	1 o	1 u
Denmark	0 o	1 o	1 o	1 o	1 o	1 o	1 o	1 o	1 o	1 u
France	4 o	0 o	0 o	0 o	15 o	10 o	11 o	7 o	8 o	8 u
Germany	231 o	230 o	230 o	231 o	231 u	201 o	196 o	192 o	187 o	187 u
Italy	993 u	987 o	971 o	948 o	932 o	919 o	909 o	896 u	880 e	880 u
Norway	0 u	0 u	0 u	0 u	0 u	0 u	0 e	2 o	2 e	2 u
Poland	0 u	0 u	0 u	0 u	0 u	0 u	0 e	0 u	0 e	0 u
Slovenia	1 o	1 o	1 o	1 o	1 o	1 u	1 e	1 u	1 e	1 u
Spain	0 u	0 u	0 u	0 u	0 u	0 u	0 e	0 u	0 e	0 u
Sweden	515 o	547 o	535 o	895 o	6 o	6 o	6 e	6 u	6 e	6 u
UK	0 u	0 u	45 o	47 o	46 o	36 o	36 o	126 o	37 o	37 u
European Union	1 792	1 813	1 791	2 128	1 209	1 156	1 153	1 262	1 085	1 085
N America	155	165	236	123	123	144	144	102	102	102
USA	155 o	165 o	236 o	123 o	123 o	144 o	144 o	102 o	102 o	102 u
Oceania	3	3	3	3	3	3	3	3	3	3
Fiji	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 o
New Caledon	0 o	0 o	0 o	0 u	0 u	0 u	0 u	0 u	0 e	0 o
Solomon Is	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 o	0 o	0 u
Vanuatu	3 u	3 u	3 u	3 u	3 u	3 u	3 u	3 u	3 u	3 o
S America	5	5	5	5	5	5	18	18	18	18
Brazil	5 u	5 e	5 u	5 u	5 u	5 u	18 u	18 o	18 o	18 o

Liquid biofuels

Biocarburants liquides

Biocombustibles líquidos

PROD (GWh)	2016	2017	2018	2019	2020	2021	2022	2023	2024
World	7 018	6 514	6 995	8 025	7 515	6 866	5 598	6 289	7 480
Africa	2	2	4	8	6	7	7	506	1 167
Burkina Faso	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u
Liberia		0 e	0 e	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	504 o	1 165 o
Tanzania	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e
Asia	1 455	1 242	1 610	2 295	1 918	1 832	1 654	1 677	1 490
Korea Rep	1 455 e	1 242 e	1 610 o	2 295 o	1 918 o	1 832 o	1 654 o	1 677 o	1 490 o
Eurasia	1	2	5	22	40	56	45	31	27
Türkiye	1 o	2 o	5 o	22 o	40 o	56 o	45 o	31 o	27 o
Europe	5 318	5 023	4 996	5 311	5 225	4 630	3 537	3 728	4 486
Austria	1 o	0 o	0 o	0 o	0 o	0 o		0 o	0 o
Belgium	31 o	36 o	74 o	71 o	25 o	15 o	71 o	4 o	1 o
Denmark	3 o	1 o	1 o						
Finland	4 o	8 o	6 o	2 o		1 o			
France	2 o	0 o	0 o	0 o	5 o	8 o	8 o	550 o	776 o
Germany	490 o	437 o	382 o	330 o	307 o	210 o	92 o	207 o	183 o
Italy	4 710 o	4 464 o	4 291 o	4 677 o	4 667 o	4 109 o	3 088 o	2 758 o	3 352 u
Latvia			0 o						
Norway			0 o	0 o	0 o	1 o	1 o	1 o	0 o
Poland	29 o	36 o	36 o	36 o	36 o	36 o	36 o	36 o	
Slovenia	3 o	5 o	6 o	5 o	6 o	6 o	7 o	7 o	7 o
Spain			12 o	13 o	13 o	14 o	13 o	6 o	5 o
Sweden	46 o	37 o	52 o	32 o	20 o	83 o	75 o	14 o	19 o
UK			135 u	144 u	146 o	149 o	146 u	146 u	144 u
European Union	5 318	5 023	4 861	5 167	5 079	4 481	3 390	3 582	4 342
N America	210	217	351	358	298	309	299	243	213
USA	210 o	217 o	351 o	358 o	298 o	309 o	299 o	243 o	213 o
Oceania	4	1	1	2	2	1	0	1	1
Fiji	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 e	0 u
New Caledon	1 o	0 o	1 o	1 u	0 e	0 e	0 e	1 e	1 o
Solomon Is	1 u	1 u	0 o	0 o	0 o				
Vanuatu	2 u	0 e	1 u	1 u	1 e				
S America	28	26	28	28	26	30	56	103	95
Brazil	28 u	26 u	28 u	28 u	26 u	30 u	56 u	103 u	95 u
Ecuador	0 o	0 o		0 o					
Uruguay	0 o	0 o	0 o	0 o	0 o				

Gas biofuels

Biocombustibles gazeux

Biocombustibles gaseosos

CAP (MW)	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
World	16 575	17 451	18 481	19 305	20 254	20 513	20 949	21 196	21 478	21 583
Africa	35	38	44	55	55	100	100	110	110	110
Burkina Faso	1 o	1 o	1 u	1 u	1 u	1 u	1 u	1 u	1 u	1 u
Egypt				12 o	12 u	56 u	56 u	64 e	64 e	64 o
Gabon	1 u	1 u	1 u	1 u	1 u	1 u	1 u	1 u	1 u	1 u
Ghana	0 o	0 u	0 o	0 u	0 o	0 u	0 u	0 o	0 o	0 o
Kenya	3 e	2 e	2 e	2 e	2 e	2 e	2 e	2 e	2 u	2 u
Mali	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u
Mauritius	3 o	3 u	3 o	3 o	3 o	3 o	3 o	3 o	3 o	3 o
Morocco	7 o	7 o	7 o	7 o	7 o	7 o	7 o	7 o	7 o	7 o
Namibia			1 o	1 o	1 o	1 o	1 o	1 o	1 o	1 o
Nigeria	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u
Reunion	4 o	4 u	4 o	4 u	4 u	4 u	4 u	7 o	7 o	7 o
South Africa	14 o	18 o	23 o	23 u	23 u	23 u	23 u	23 u	23 u	23 u
Tanzania	1 u	1 u	1 u	1 u	1 u	1 u	1 u	1 u	1 u	1 u
Asia	1 143	1 377	1 633	1 881	2 036	2 376	2 550	2 757	2 800	2 660
Bangladesh	5 u	5 u	5 u	5 u	5 u	5 u	5 u	5 u	5 u	5 u
Cambodia	2 u	2 u	2 u	2 u	2 u	2 u	2 u	2 u	2 u	2 u
China	350 o	454 o	630 o	799 o	890 o	1 110 o	1 230 o	1 490 o	1 520 o	1 370 o
China HK SAR		17 e	17 e	24 e	24 e	24 e	30 u	30 u	34 e	34 u
Chinese Taipei	9 o	9 o	10 o	8 o	16 o	14 o	21 o	21 o	22 o	23 o
India	10 u	13 u	14 u	14 u	14 u	14 u	14 u	14 u	14 u	14 u
Indonesia	64 u	101 u	109 u	112 o	118 u	135 u	149 u	156 u	157 o	157 u
Japan	34 o	47 o	59 o	70 o	78 o	88 o	94 o	105 o	116 o	125 o
Kazakhstan	0 o	1 u	1 u	2 u	8 e	8 e	8 e	2 e	2 u	2 u
Korea Rep	129 o	136 o	140 o	139 o	140 o	142 o	142 o	143 o	140 u	141 u
Lao PDR			0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u
Malaysia	58 u	62 u	70 u	103 u	111 u	124 u	138 u	155 u	155 u	155 u
Myanmar	1 u	1 u	1 u	1 u	1 u	1 u	1 u	1 u	1 e	1 u
Nepal		0 u	0 u	0 u	0 u	1 u	1 u	1 u	1 u	1 u
Pakistan	9 e	9 e	9 e	9 e	9 e	9 e	9 e	9 e	9 e	9 u
Philippines	32 u	34 u	47 u	47 u	49 u	49 u	48 u	48 u	49 u	49 u
Sri Lanka	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u
Thailand	435 e	475 e	505 o	530 o	557 u	635 u	643 u	559 u	557 u	557 u
Timor Leste	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u
Viet Nam	4 u	11 u	14 u	14 u	14 u	14 u	14 u	14 u	14 u	14 u
C America + Carib	25	39	40	40	43	44	65	66	67	67
Bahamas	1 u	1 u	1 u	1 u	1 u	1 u	1 u	1 u	1 o	1 u
Costa Rica	5 o	5 o	5 o	5 o	5 o	5 o	5 o	5 o	5 o	5 o
Cuba	1 u	1 u	1 u	1 u	1 u	2 u	15 u	15 u	15 e	15 e
Dominican Rep	2 e	2 e	2 e	2 e	2 e	2 e	4 e	4 e	4 e	4 o
El Salvador	7 o	7 o	7 o	7 o	7 o	6 u	8 o	8 o	10 o	10 o
Guadeloupe	0 e	2 e	4 e	4 e	4 e	4 e	4 e	4 u	4 u	4 o
Guatemala	2 o	6 o	6 o	6 o	6 o	6 o	6 o	6 o	6 o	6 o
Honduras	4 e	4 e	4 e	4 e	4 e	4 e	4 e	4 e	4 e	4 e
Martinique	1 o	1 o	1 e	1 e	1 e	1 u	1 u	1 u	1 u	1 o
Nicaragua	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 e	0 u
Panama		8 o	8 u	8 o	8 u	8 e	11 e	11 e	11 e	11 e
Puerto Rico	2 e	2 e	2 e	2 e	5 u	5 e	5 e	5 o	5 o	5 o
Eurasia	311	390	452	561	754	1 006	1 145	1 200	1 223	1 249
Azerbaijan	1 o	1 o	1 u	1 u	1 e	1 e	1 e	1 u	1 e	1 e
Russian Fed	13 u	13 u	13 u	13 u	13 u	19 u	19 u	19 u	19 u	45 u
Türkiye	297 u	377 u	438 u	548 u	741 u	987 u	1 126 u	1 181 u	1 204 u	1 204 u

Gas biofuels

Biocombustibles gazeux

Biocombustibles gaseosos

CAP (MW)	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Europe	11 783	12 209	12 932	13 338	13 950	13 556	13 684	13 745	13 971	14 221
Austria	202 u	180 u	175 o	164 u	165 u	166 e	166 e	178 o	183 e	183 u
Belarus	27 o	28 o	33 u	38 u	37 e	37 u	39 e			
Belgium	188 o	183 o	190 o	197 o	199 o	202 o	205 o	216 o	198 o	198 u
Bosnia Herzg	1 u	1 u	1 o	1 e	1 e	1 e	1 o	1 o	1 e	1 u
Bulgaria	38 o	29 o	36 u	33 u	33 u	33 e	37 e	37 u	37 e	37 u
Croatia	37 u	45 u	51 u	52 u	55 u	59 u	59 u	54 o	60 e	60 u
Cyprus	10 o	10 u	13 e	13 e	13 e	13 e	14 e	14 u	11 e	11 u
Czechia	369 o	372 o	369 o	369 o	366 o	370 o	378 o	376 o	371 e	371 u
Denmark	107 u	108 u	108 u	121 e	131 u	129 u	125 e	124 u	124 e	124 u
Estonia	11 u	11 u	9 e	8 e	11 e	11 e	11 e	11 e	4 o	4 u
Faroe Islands					0 o	2 u	2 u	2 u	2 e	2 u
Finland	114 o	116 o	120 o	103 o	85 o	94 o	76 o	76 o	76 e	76 u
France	414 e	451 e	476 e	516 e	545 e	565 e	572 o	584 u	584 e	584 u
Germany	5 850 o	6 147 o	6 784 o	7 081 o	7 494 o	6 963 o	7 019 o	7 074 o	7 110 e	7 189 u
Greece	56 u	62 u	70 u	75 o	83 u	92 e	111 e	121 o	128 e	161 u
Hungary	76 o	82 o	76 o	79 o	85 o	85 o	84 o	84 o	86 o	86 u
Ireland	38 u	39 u	37 u	40 u	39 u	40 u	40 u	39 u	39 e	39 u
Italy	1 352 u	1 372 u	1 375 u	1 382 u	1 379 u	1 382 o	1 387 o	1 391 o	1 364 o	1 489 u
Latvia	62 u	60 o	61 o	61 u	60 u	57 e	53 e	44 u	40 o	40 u
Lithuania	25 u	25 u	35 o	35 o	36 u	37 e	37 e	37 o	37 e	37 u
Luxembourg	12 o	12 u	12 u	12 u	12 e	12 e	11 e	11 o	10 o	10 u
Malta	5 o	5 o	5 u	5 u	5 u	6 o	4 o	4 o	4 o	4 u
Moldova Rep	3 o	6 o	6 o	6 o	7 o	7 o	15 o	15 o	7 u	7 u
Netherlands	224 e	224 e	207 e	201 e	192 e	180 o	179 o	184 o	184 o	184 u
North Macedonia	5 o	7 o	7 o	8 o	8 o	9 o	12 o	12 o	10 e	10 u
Norway	10 u	10 u	10 u	7 u	11 u	7 u	7 u	7 u	8 e	8 u
Poland	225 o	229 e	225 e	233 o	261 o	251 e	278 o	276 u	287 o	287 u
Portugal	68 o	70 o	71 o	72 o	71 o	73 e	73 e	75 u	76 e	76 u
Romania	16 o	22 o	22 o	20 o	30 o	32 e	23 o	21 o	21 o	21 u
Serbia	10 o	13 o	17 o	26 o	29 o	34 e	36 o	37 o	44 o	44 u
Slovakia	93 u	91 u	89 u	82 u	82 u	81 u	77 u	84 u	189 e	189 u
Slovenia	29 u	27 u	27 u	25 u	30 u	30 u	30 u	30 u	30 e	30 u
Spain	248 u	251 u	258 u	267 u	269 u	271 u	272 u	272 u	275 e	275 u
Sweden	2 u	2 u	2 o	2 u	100 u	100 u	100 e	100 u	100 e	100 u
Switzerland	63 o	68 o	71 o	71 o	74 o	76 o	77 o	77 o	77 o	77 u
UK	1 774 o	1 819 o	1 837 o	1 844 o	1 848 o	1 927 o	1 952 o	1 954 o	1 964 o	1 977 u
Ukraine	21 u	34 u	46 u	93 e	103 e	123 u	123 u	123 u	230 e	230 e
European Union	9 869	10 223	10 905	11 246	11 832	11 334	11 420	11 517	11 628	11 865
Middle East	70	71	74	74	74	74	87	91	109	109
Iran IR	11 o	11 o	11 o	11 o	11 o	11 u	14 u	14 u	22 e	22 u
Israel	26 o	26 o	31 o	31 o	31 o	31 o	32 o	35 o	46 o	46 u
Jordan	13 u	13 u	13 u	13 u	13 u	13 u	13 u	13 u	13 u	13 u
Lebanon	9 u	9 u	7 u	7 u	7 u	7 u	7 u	7 u	7 u	7 u
Palestine		0 o	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u
Qatar	4 u	4 u	4 u	4 u	4 u	4 u	4 u	4 u	4 u	4 u
Syrian AR	7 u	7 u	7 u	7 u	7 u	7 u	7 u	7 u	7 e	7 e
United Arab Em	1 o	1 o	1 u	1 u	1 u	1 u	9 u	10 o	10 o	10 o
N America	2 601	2 691	2 646	2 609	2 506	2 477	2 398	2 274	2 231	2 216
Canada	179 u	218 u	212 u	251 u	262 u	367 u	365 u	352 u	352 u	352 u
Mexico	47 e	57 e	55 e	55 e	57 e	64 e	66 e	70 e	73 e	73 u
USA	2 375 e	2 416 e	2 379 e	2 303 e	2 187 e	2 046 e	1 967 e	1 852 u	1 806 u	1 791 u
Oceania	241	240	240	240	251	251	254	254	252	212
Australia	190 o	190 o	190 u	190 u	197 u	197 u	197 u	197 u	197 u	157 u
New Zealand	47 u	46 u	46 u	46 u	50 u	50 u	53 u	53 u	51 u	51 u
Papua N Guin	4 u	4 u	4 u	4 u	4 u	4 u	4 u	4 u	4 u	4 o
Samoa				0 u	0 u	0 u	0 u			
S America	367	397	421	507	585	628	667	700	715	740
Argentina	19 e	24 e	25 e	41 o	52 e	63 e	67 e	80 e	84 u	84 u
Brazil	275 u	292 u	307 u	378 u	435 u	465 u	499 u	519 u	526 u	546 o
Chile	53 u	56 u	57 u	53 u	60 u	60 u	60 u	58 u	58 o	58 o
Colombia	6 o	6 o	6 o	6 o	11 o	11 o	11 o	11 o	11 o	15 o
Ecuador	2 o	7 o	7 o	7 o	7 o	8 o	8 o	8 o	11 o	11 o
Fr Guiana									1 u	1 u
Paraguay	0 u	0 u	0 u	2 o	2 u	2 u	2 u	2 u	2 u	2 u
Peru	10 e	10 e	10 o	10 o	10 o	10 e	10 o	13 u	13 o	13 o
Uruguay	2 e	2 e	9 u	9 o	9 o	9 u	9 o	9 o	9 u	9 o

Gas biofuels

Biocombustibles gazeux

Biocombustibles gaseosos

PROD (GWh)	2016	2017	2018	2019	2020	2021	2022	2023	2024
World	87 545	89 621	91 901	93 093	94 976	96 987	94 656	97 530	97 989
Africa	83	116	127	157	162	158	153	151	239
Burkina Faso		1 o	0 o	0 o	0 o	0 o	1 o	0 o	0 o
Egypt				30 e	30 u	30 u	30 u	30 u	120 o
Gabon	1 e	1 e	1 e	1 e	1 e	1 e	1 e	1 e	1 e
Ghana		0 o	0 o	0 o	0 o	0 o	0 o	1 o	1 o
Kenya	0 e	1 e	0 e	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
Mauritius	19 o	17 o	23 o	20 o	25 o	19 o	17 o	13 o	9 o
Morocco	11 o	40 o	40 o	40 o	40 o	40 o	40 u	40 e	40 e
Namibia			0 e	0 e	0 e	0 e	0 e	0 e	0 e
Nigeria	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e
Reunion	17 o	13 o	13 o	15 o	16 o	18 o	14 o	15 o	19 o
South Africa	30 e	39 e	45 e	45 e	45 e	45 e	45 e	45 e	45 e
Tanzania	4 e	4 e	4 e	4 e	4 e	4 e	4 e	4 e	4 e
Asia	3 801	4 292	7 043	8 085	8 224	9 287	9 266	10 386	10 896
Bangladesh	2 e	2 e	2 e	2 e	2 e	2 e	2 e	2 e	2 e
Cambodia	6 u	6 u	6 u	6 u	6 u	6 u	6 u	6 u	6 e
China	1 863 o	2 424 e	3 204 o	3 800 u	4 100 u	4 700 u	5 400 u	6 600 u	6 900 o
China HK SAR	0 o	41 o	43 o	47 o	67 o	89 o	92 o	92 u	92 u
Chinese Taipei	22 u	22 u	25 u	25 u	70 e	49 u	46 u	73 u	64 o
India	24 u	29 u	31 u	32 u	32 u	32 u	32 u	32 u	32 u
Indonesia	169 e	264 e	584 u	618 u	799 u	940 u	1 044 u	1 012 u	1 114 u
Japan	0 o	0 o	0 o	4 o	8 o	7 o	9 o	8 o	7 o
Kazakhstan	35 u	33 u	1 u	3 u	8 u	3 u	0 u	1 u	2 o
Korea Rep	357 e	426 e	417 o	429 o	349 o	380 o	368 o	360 o	360 o
Lao PDR			1 u	1 u	1 u	1 u	1 u	1 u	1 u
Malaysia	107 e	216 e	252 e	314 e	385 e	429 e	545 e	580 e	699 e
Myanmar	2 u	2 u	2 u	2 u	2 u	2 u	2 u	2 u	2 u
Nepal		0 u	1 u	1 u	1 u	3 u	3 u	3 u	3 e
Pakistan	19 e	19 e	19 e	19 e	19 e	19 e	19 e	19 e	19 e
Philippines	95 e	95 e	95 u	95 u	95 u	95 u	92 u	92 u	92 u
Sri Lanka	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 o
Thailand	1 099 u	683 u	2 325 u	2 652 u	2 244 u	2 495 u	1 569 u	1 467 u	1 466 u
Timor Leste	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u
Viet Nam	1 e	28 e	35 e	35 e	35 e	35 e	35 e	35 e	35 e
C America + Carib	85	117	132	150	170	253	263	312	282
Aruba	0 e	0 e							
Bahamas	6 u	6 u	6 u	6 u	6 u	6 u	6 u	6 u	6 u
Costa Rica	7 o	7 o	7 o	7 o	7 o	7 o	7 o	7 o	7 o
Cuba	0 e	0 e		3 e	16 e	108 o	116 u	159 e	140 o
Dominican Rep	16 o	16 o	16 o	14 e	14 e	14 e	22 e	30 e	30 u
El Salvador	33 o	37 o	31 o	32 o	29 o	23 o	25 o	31 o	33 o
Guadeloupe	0 o	3 e	12 e	17 e	16 e	17 e	16 e	19 e	24 o
Guatemala	9 o	18 o	26 o	25 o	30 o	27 o	19 o	24 o	18 o
Honduras	6 e	9 e	5 e	4 e	3 e	5 e	8 e	12 e	5 e
Martinique	1 o	1 e	1 e	1 e	2 e	1 e	1 u	1 u	1 u
Nicaragua	0 u	0 u	0 u	7 e	7 e	8 e	8 e	8 e	8 o
Panama		9 e	18 o	19 e	30 e	22 e	20 e	1 e	
Puerto Rico	7 e	11 e	11 e	15 e	9 e	14 e	14 e	12 e	8 o
Eurasia	1 560	1 781	2 159	2 598	3 047	4 082	4 602	4 680	4 837
Azerbaijan	0 e	0 e	0 o						
Türkiye	1 560 o	1 781 o	2 159 o	2 598 u	3 047 u	4 082 o	4 602 o	4 680 o	4 837 u

Gas biofuels

Biocombustibles gazeux

Biocombustibles gaseosos

PROD (GWh)	2016	2017	2018	2019	2020	2021	2022	2023	2024
Europe	63 400	64 181	63 580	63 489	64 838	64 310	63 655	65 233	65 699
Austria	666 o	670 o	628 u	612 o	629 o	602 u	663 o	674 o	675 e
Belarus	35 e	46 e	43 o	41 o	205 o	244 o	196 u	192 e	150 u
Belgium	993 o	938 o	945 o	946 o	1 015 o	983 o	1 012 o	1 047 o	986 o
Bosnia Herzg	1 u	5 o	7 o	7 o	8 o	6 o	7 o	5 o	5 o
Bulgaria	190 o	216 o	212 u	231 u	226 u	216 u	191 o	166 o	193 u
Croatia	237 u	310 u	355 u	401 u	419 o	440 u	409 o	341 o	354 u
Cyprus	52 u	52 u	57 u	58 u	61 u	60 u	58 o	54 o	55 u
Czechia	2 590 o	2 639 o	2 607 o	2 528 o	2 596 o	2 593 o	2 617 o	2 602 o	2 566 u
Denmark	498 o	567 o	611 u	646 u	863 o	949 o	915 o	901 o	824 o
Estonia	45 u	42 u	38 o	39 o	31 o	16 o	6 o	3 o	1 u
Faroe Islands					1 e	7 e	5 e	4 e	7 o
Finland	398 o	406 o	420 o	362 o	297 o	329 o	266 o	259 o	176 o
France	1 991 u	2 114 u	2 370 u	2 590 u	2 767 u	3 019 u	3 010 u	3 122 u	3 208 u
Germany	33 711 o	33 879 o	33 181 o	32 952 o	33 498 e	32 356 u	32 217 u	34 238 u	34 565 u
Greece	270 u	300 u	302 u	378 u	404 u	457 u	517 o	600 o	648 u
Hungary	333 o	348 o	336 o	321 o	324 o	295 o	315 o	320 o	323 o
Ireland	208 u	203 u	184 u	188 u	168 u	173 u	159 o	150 o	146 u
Italy	8 259 u	8 299 u	8 300 u	8 277 u	8 166 u	8 124 u	7 844 o	7 484 o	7 496 u
Latvia	396 o	405 o	374 o	352 u	345 o	292 u	250 o	181 o	164 u
Lithuania	123 o	127 o	140 o	154 u	149 o	157 u	159 o	116 o	102 u
Luxembourg	73 u	73 u	75 u	71 u	63 u	61 o	60 o	55 o	54 u
Malta	8 o	10 o	9 o	6 o	6 o	7 o	7 o	10 o	9 o
Moldova Rep	14 o	23 o	28 u	29 u	28 u	32 u	24 u	14 o	17 o
Netherlands	993 o	925 o	892 e	895 e	870 o	868 o	840 o	699 o	514 e
North Macedonia	36 o	52 o	54 o	55 o	57 o	54 o	51 o	65 o	60 o
Norway	13 o	21 o	17 u	15 o	6 u	0 u	0 o	1 o	2 u
Poland	1 027 u	1 096 u	1 128 o	1 135 o	1 234 o	1 307 e	1 394 o	1 482 o	1 694 o
Portugal	285 o	287 o	271 u	264 u	259 u	268 u	260 o	251 o	242 u
Romania	65 o	67 o	70 o	54 o	53 o	73 o	90 o	66 o	49 o
Serbia	34 o	75 o	102 o	127 o	173 o	228 o	231 o	234 o	272 o
Slovakia	576 u	594 u	539 u	534 u	510 u	487 u	391 o	406 o	483 u
Slovenia	142 u	130 u	119 u	94 u	113 u	103 u	100 o	94 o	85 u
Spain	906 u	941 u	923 u	904 u	881 u	979 u	990 o	1 009 o	1 107 u
Sweden	11 o	11 o	10 o	17 o	10 o	12 o	12 o	14 o	6 u
Switzerland	321 o	334 o	351 o	372 o	417 o	433 o	438 o	448 o	452 u
UK	7 811 u	7 883 u	7 705 u	7 622 u	7 515 e	7 609 u	7 480 u	7 406 o	7 433 o
Ukraine	89 o	95 e	176 o	212 o	471 o	471 u	471 u	521 u	575 u
European Union	55 047	55 648	55 096	55 010	55 957	55 226	54 751	56 344	56 726
Middle East	209	237	239	212	238	224	244	253	279
Iran IR	22 o	24 o	24 o	11 o	22 o	22 u	22 u	22 u	22 u
Israel	114 e	117 u	117 u	107 u	117 u	103 u	111 u	115 u	115 o
Jordan	4 u	4 u	3 u	4 o	4 e	4 o	4 o	4 e	4 u
Lebanon	10 u	30 u	32 u	32 u	32 u	32 u	32 u	32 u	32 u
Palestine		1 o	0 o	0 o	0 o	0 o	0 u	0 u	0 u
Qatar	26 u	27 u	28 u	25 u	28 u	28 u	28 u	28 u	28 u
Syrian AR	33 u	33 u	33 u	33 u	33 u	33 u	33 u	33 e	33 e
United Arab Em	0 o	0 o	0 o	0 o	1 o	0 o	12 o	18 o	44 o
N America	15 125	15 458	14 931	14 297	13 925	13 582	11 804	11 162	10 540
Canada	1 501 u	1 526 u	1 481 u	1 450 u	1 459 u	2 036 u	1 387 u	1 367 u	1 373 u
Mexico	158 u	209 u	191 u	188 u	248 u	209 u	160 u	142 u	151 u
USA	13 466 u	13 723 u	13 259 u	12 659 u	12 218 u	11 337 u	10 257 u	9 653 u	9 016 u
Oceania	1 577	1 560	1 569	1 657	1 679	1 663	1 691	1 749	1 749
Australia	1 271 e	1 249 e	1 259 u	1 344 u	1 361 u	1 354 u	1 373 u	1 405 u	1 390 u
New Zealand	278 e	282 e	280 o	286 o	291 o	281 o	290 o	316 o	331 o
Papua N Guin	28 u	29 u	30 u	27 u	27 u	28 u	28 u	28 u	28 u
Samoa				0 e	0 e	0 e	0 e		
S America	1 705	1 880	2 121	2 449	2 692	3 428	2 978	3 603	3 466
Argentina	123 u	143 u	148 u	214 u	264 u	327 u	333 u	412 u	441 u
Brazil	1 492 u	1 595 u	1 793 u	2 028 u	2 229 u	2 896 u	2 437 u	2 986 u	2 821 u
Chile	12 e	59 e	68 u	69 u	68 u	62 u	66 u	61 u	51 u
Colombia	0 u	0 u	0 u	1 u	0 u	1 u	1 u	1 u	1 u
Ecuador	13 o	28 o	46 o	41 o	44 o	42 o	42 o	38 e	36 o
Fr Guiana									9 u
Paraguay	2 u	2 u	2 u	7 u	13 u	13 u	13 u	13 u	13 u
Peru	56 e	47 e	51 o	66 e	52 e	65 e	64 e	69 u	72 u
Uruguay	6 e	6 e	14 u	23 e	23 e	23 e	23 e	23 e	23 e

Geothermal energy

Énergie géothermique

Energía geotérmica

CAP (MW)	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
World	12 169	12 754	13 196	13 824	14 184	14 468	14 706	15 102	15 365	15 624
Africa	660	680	691	691	870	870	957	992	947	933
Ethiopia	7 o	7 o	7 u	7 o	7 o	7 o	7 e	7 o	7 e	7 o
Kenya	653 o	673 o	684 o	684 o	863 o	863 o	950 o	985 o	940 o	925 o
Asia	4 001	4 222	4 376	4 566	4 572	4 732	4 760	5 039	5 085	5 304
China	26 o	26 o	26 o	26 u	26 u	26 u	26 u	26 u	26 u	26 u
Chinese Taipei			0 o	0 o	0 o	5 o	5 o	7 o	7 o	7 o
Indonesia	1 533 o	1 808 o	1 948 o	2 131 o	2 131 o	2 286 u	2 360 u	2 598 u	2 639 o	2 744 o
Japan	526 o	471 o	473 o	481 o	487 o	487 o	437 o	456 o	461 o	469 o
Philippines	1 916 o	1 916 o	1 928 o	1 928 o	1 928 u	1 928 u	1 932 u	1 952 u	1 952 u	2 057 o
Thailand	0 e	0 e	0 u	0 o	0 o	0 u	0 u	0 u	0 u	0 o
C America + Carib	630	665	665	721	722	719	735	740	740	741
Costa Rica	207 o	207 o	207 o	262 o	262 o	259 o	263 o	263 o	263 o	263 o
El Salvador	204 o	204 o	204 o	204 o	204 o	204 o	204 o	209 o	209 o	209 o
Guadeloupe	15 e	15 u	15 e	15 e	15 e	15 e	15 e	15 u	15 u	15 o
Guatemala	49 o	49 o	49 o	52 o	49 o	49 o	49 o	49 o	49 o	49 o
Honduras		35 o	35 o	35 o	39 o	39 e	39 e	39 e	39 e	40 o
Nicaragua	155 e	155 e	155 o	153 o	153 o	153 u	165 e	165 u	165 o	165 u
Eurasia	895	1 138	1 357	1 596	1 695	1 758	1 773	1 773	1 815	1 839
Russian Fed	74 u	74 o	74 o	81 o	81 u	81 u	81 u	81 u	81 u	81 u
Türkiye	821 o	1 064 o	1 283 o	1 515 o	1 613 u	1 676 o	1 691 o	1 691 e	1 734 o	1 758 o
Europe	1 507	1 558	1 617	1 622	1 627	1 633	1 640	1 670	1 666	1 695
Austria	1 o	1 o	1 o	1 u	1 o	0 o	0 o	0 o	0 o	0 u
Croatia			10 o	10 o	10 o	10 o	10 e	10 o	10 o	10 u
France	16 o	16 o	16 o	16 o	16 o	16 o	16 e	16 u	16 e	16 u
Germany	33 o	32 o	35 o	40 o	40 u	46 o	52 o	52 o	48 o	78 o
Hungary		3 o	3 o	3 o	3 o	3 o	3 e	3 o	3 o	3 u
Iceland	665 o	710 o	756 o	756 o	756 o	756 o	758 o	788 o	788 e	788 u
Italy	767 o	767 o	767 u	767 o	772 o	772 o	772 e	772 e	772 o	772 u
Portugal	25 o	29 o	29 o	29 o	29 o	29 o	29 e	29 e	29 e	29 u
Romania	0 o	0 o	0 o	0 o	0 o	0 o				
European Union	842	848	861	866	871	876	882	882	878	908
N America	3 441	3 432	3 393	3 529	3 545	3 595	3 647	3 694	3 694	3 694
Mexico	924 u	949 u	949 u	974 u	974 u	999 u	999 u	999 u	999 e	999 u
USA	2 517 o	2 483 e	2 444 e	2 555 e	2 572 e	2 597 e	2 649 e	2 696 o	2 696 o	2 696 o
Oceania	1 035	1 035	1 059	1 059	1 112	1 110	1 110	1 110	1 334	1 334
Australia	0 e	0 u	0 o	0 o	0 o	0 o	0 u	0 u	0 u	0 u
New Zealand	985 o	985 o	1 009 o	1 009 o	1 062 o	1 060 o	1 060 o	1 060 o	1 283 o	1 283 e
Papua N Guin	50 u	50 u	50 u	50 u	50 u	50 u	50 u	50 u	51 u	51 o
S America		24	40	40	40	51	83	84	84	84
Chile		24 o	40 o	40 o	40 o	51 o	83 o	84 o	84 o	84 o

Geothermal energy

Énergie géothermique

Energía geotérmica

PROD (GWh)	2016	2017	2018	2019	2020	2021	2022	2023	2024
World	83 241	86 705	89 464	92 003	95 454	94 627	97 229	98 143	97 679
Africa	4 689	4 870	5 168	5 384	5 385	5 183	5 727	6 086	5 922
Ethiopia	0 o	0 e					29 o	0 o	
Kenya	4 689 e	4 870 e	5 168 e	5 384 e	5 385 e	5 183 e	5 698 e	6 086 e	5 922 e
Asia	24 372	25 636	27 123	27 783	29 458	29 085	30 252	31 245	31 607
China	144 o	144 o	144 o	144 u	144 u	144 u	144 u	144 u	144 e
Chinese Taipei			0 u	1 u	2 u	9 u	25 o	23 o	27 o
Indonesia	10 656 o	12 764 o	14 019 u	14 100 u	15 563 u	15 899 u	16 677 u	16 936 u	16 763 o
Japan	2 501 o	2 457 o	2 524 o	2 847 o	2 992 o	3 016 o	2 980 o	3 411 o	3 883 o
Philippines	11 070 o	10 270 o	10 435 o	10 691 u	10 757 u	10 016 u	10 425 u	10 730 u	10 789 u
Thailand	1 u	2 u	1 o	1 u	1 u	1 u	1 u	1 u	1 u
C America + Carib	3 994	3 896	3 969	4 432	4 709	4 592	4 603	4 513	4 482
Costa Rica	1 340 u	1 118 o	969 o	1 513 o	1 689 o	1 602 o	1 619 o	1 479 o	1 498 o
El Salvador	1 576 o	1 569 o	1 545 o	1 474 e	1 557 o	1 559 o	1 581 o	1 595 o	1 569 o
Guadeloupe	84 o	112 o	107 o	109 e	115 e	84 e	96 e	111 e	94 o
Guatemala	289 o	253 o	250 o	262 o	274 o	265 o	282 o	285 o	275 o
Honduras		93 o	297 o	296 o	307 e	348 e	337 e	291 e	305 e
Nicaragua	706 e	751 o	801 o	778 e	767 e	734 e	687 e	751 e	742 o
Eurasia	5 264	6 562	7 857	9 384	10 449	11 223	11 568	11 551	11 573
Russian Fed	446 u	435 u	426 u	433 u	421 u	430 u	449 u	449 e	433 u
Türkiye	4 819 o	6 127 o	7 431 o	8 952 o	10 028 o	10 793 o	11 119 o	11 102 o	11 140 o
Europe	11 800	11 885	12 665	12 744	12 678	12 340	12 344	12 266	12 199
Austria	0 o	0 o	0 o	0 o	0 o	0 o	0 o	0 o	
Croatia			2 o	92 o	94 o	90 o	73 o	21 o	
France	98 o	133 o	127 o	128 o	133 o	100 o	114 o	129 o	110 o
Germany	175 o	163 o	178 o	197 o	231 o	244 o	206 o	195 o	215 o
Hungary		1 o	12 o	18 o	16 o	12 o	4 o	16 o	12 o
Iceland	5 067 o	5 170 o	6 010 o	6 018 o	5 961 o	5 802 o	5 916 o	6 006 o	5 986 o
Italy	6 289 o	6 201 o	6 105 o	6 075 o	6 026 o	5 914 o	5 837 o	5 692 o	5 675 o
Portugal	172 o	217 o	230 o	215 o	217 o	179 o	195 o	208 o	202 o
Romania	0 o								
European Union	6 733	6 715	6 655	6 726	6 717	6 538	6 428	6 260	6 214
N America	24 732	25 388	24 148	23 716	24 158	23 337	23 678	23 821	22 227
Mexico	6 148 o	6 662 u	5 375 u	5 352 u	5 327 u	4 260 u	4 536 u	4 321 u	3 692 u
USA	18 584 o	18 726 o	18 773 o	18 364 o	18 831 o	19 077 o	19 142 o	19 500 o	18 535 o
Oceania	8 389	8 404	8 319	8 357	8 400	8 543	8 591	8 293	9 361
Australia	0 o	1 o							
New Zealand	8 202 o	8 246 o	8 193 o	8 261 o	8 304 o	8 447 o	8 495 o	8 197 o	9 265 o
Papua N Guin	187 u	157 u	126 u	96 u	96 u	96 u	96 e	96 u	96 u
S America		64	214	202	216	324	467	368	308
Chile		64 o	214 o	202 o	216 o	324 o	467 o	368 o	308 o

Total off-grid renewable energy

Total de l'énergie renouvelable hors réseau

Total de energía renovable fuera de la red

CAP (MW)	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
World	7 375.563	7 343.391	9 167.274	9 332.764	10 672.626	11 803.655	13 534.313	14 744.760	17 147.572	18 906.263
Africa	429.223	568.068	689.799	754.994	858.015	1 007.187	1 096.823	1 207.680	1 282.656	1 296.094
Algeria	29.740	29.740	29.540	29.540	29.540	29.540	48.840	57.850	57.850	57.850
Angola	23.187	35.703	35.716	36.645	36.653	36.720	36.739	36.754	36.754	36.754
Benin	0.795	1.036	1.185	2.406	3.447	4.616	6.982	8.858	8.858	8.858
Botswana	1.903	2.047	2.351	2.353	2.353	2.355	2.355	2.360	2.360	2.360
Burkina Faso	3.315	3.602	19.045	20.189	20.679	21.464	22.059	22.192	22.192	22.192
Burundi	6.719	7.069	7.080	7.120	7.260	6.718	6.563	7.108	7.688	7.688
Cabo Verde	0.268	0.426	0.998	1.139	1.305	1.427	1.623	1.796	1.796	1.796
Cameroon	0.247	11.672	11.935	13.211	14.073	26.749	26.825	27.260	27.278	27.260
Cent Afr Rep	0.409	0.474	0.499	0.496	0.539	0.537	0.534	0.640	0.723	0.723
Chad	1.280	1.290	1.662	1.657	1.706	2.192	2.238	2.262	2.262	2.262
Comoros	0.805	1.146	1.146	1.165	1.152	0.362	0.034	0.070	0.070	0.070
Congo DR	4.770	18.630	32.093	43.238	46.748	49.733	52.530	53.726	63.726	63.726
Congo Rep	0.028	0.007	0.064	0.062	0.522	0.565	0.640	0.729	0.791	0.791
Cote d Ivoire	0.450	1.057	2.097	4.206	6.402	7.759	9.009	9.084	9.084	9.084
Djibouti	0.405	0.416	0.429	0.429	0.429	20.429	20.429	20.429	20.429	20.729
Egypt	35.000	35.000	49.200	35.200	37.000	35.500	35.500	35.280	35.280	35.280
Eq Guinea	0.160	0.354	0.354	0.336	0.325	0.189	0.006	0.006	0.006	0.006
Eritrea	9.839	24.179	26.689	26.744	26.731	25.950	25.610	25.610	25.610	25.610
Eswatini	1.800	1.803	1.803	1.803	1.838	1.838	1.838	1.838	1.838	1.838
Ethiopia	15.325	13.779	13.631	13.631	21.469	22.469	22.469	22.469	22.839	22.839
Gabon	1.846	1.861	1.866	1.878	1.870	2.270	2.290	2.284	2.273	2.273
Gambia	0.494	0.999	1.142	1.152	1.142	1.129	1.045	1.053	1.061	1.061
Ghana	19.804	21.012	21.119	20.931	20.266	20.345	20.342	20.445	20.502	20.502
Guinea	2.447	2.646	15.120	16.234	16.850	17.181	18.279	18.978	19.299	19.299
Guinea Bissau	0.701	0.945	1.826	1.822	1.761	2.052	1.804	1.995	2.747	2.747
Kenya	39.324	47.564	51.049	57.856	63.061	78.346	82.655	85.646	87.286	87.286
Lesotho	0.339	0.339	0.274	0.499	0.505	0.470	0.640	0.695	0.695	0.695
Liberia	5.352	5.796	6.178	6.618	7.505	7.831	8.454	8.681	8.686	10.686
Libya	4.900	5.110	5.110	5.110	5.111	6.333	6.333	6.333	6.333	6.333
Madagascar	6.935	7.588	7.866	9.160	10.252	10.121	10.871	14.481	15.815	15.815
Malawi	2.096	2.532	2.711	3.038	4.537	5.005	5.332	5.332	5.499	5.499
Mali	11.220	48.074	48.568	49.603	49.870	80.871	81.426	81.426	80.962	80.962
Mauritania	24.166	24.166	25.466	25.609	25.609	25.609	25.609	59.609	93.609	105.609
Mauritius	0.700	0.700	0.700	0.700	0.700	0.700	0.700	0.700	0.700	0.700
Morocco	25.870	27.895	27.895	27.903	28.000	28.000	28.000	28.000	28.000	28.000
Mozambique	4.037	4.494	4.637	7.301	13.252	21.118	31.073	63.026	73.162	73.162
Namibia	1.368	1.409	13.602	13.893	14.382	14.400	14.414	8.481	8.541	8.541
Niger	6.626	6.847	6.945	7.100	7.691	7.555	7.954	10.898	10.905	10.905
Nigeria	22.556	27.408	31.262	42.645	57.361	70.968	89.266	108.550	118.048	118.048
Reunion	0.001	0.001	0.001	1.341	1.501	1.501	1.501	1.501	1.501	1.501
Rwanda	1.350	1.539	1.829	2.505	3.002	3.410	4.066	4.438	4.250	4.250
Sao Tome Prn	0.154	0.348	0.348	0.349	0.339	0.203	0.013	0.013	0.013	0.013
Senegal	0.747	2.483	5.182	6.326	6.843	7.952	8.399	8.611	7.834	7.834
Seychelles	0.068	0.068	0.922	0.922	0.922	4.122	4.122	4.122	4.122	4.122
Sierra Leone	0.843	5.850	6.035	7.885	8.718	15.994	16.343	16.592	16.191	16.191
Somalia	3.905	5.132	5.818	5.989	14.459	22.459	45.959	49.459	49.459	49.459
South Africa	10.135	12.897	12.756	13.182	12.945	12.840	12.767	13.432	14.073	14.073
South Sudan	1.237	1.953	2.228	2.482	2.732	2.533	2.983	3.739	3.739	3.739
Sudan	26.294	36.169	59.909	80.630	117.271	136.001	136.001	136.001	136.001	136.001
Tanzania	52.727	56.562	57.570	54.435	56.292	56.643	56.516	57.005	63.215	63.215
Togo	0.082	0.572	3.782	6.638	9.422	12.800	14.740	15.549	15.713	15.713
Tunisia	2.078	2.091	2.091	7.123	8.682	8.714	8.920	8.920	8.920	8.920
Uganda	6.505	8.906	11.733	14.100	13.595	13.598	13.552	13.107	13.107	12.264
Zambia	3.060	3.417	4.921	6.914	7.613	7.849	8.796	9.427	9.670	9.670
Zimbabwe	2.812	3.266	3.821	3.551	3.783	3.153	2.794	2.835	3.292	3.292
Asia	5 960.842	5 684.369	7 096.166	7 049.148	7 969.529	8 521.396	9 796.912	10 198.968	11 829.920	13 008.843
Afghanistan	55.804	59.694	59.469	58.984	58.406	58.694	60.494	60.494	60.494	60.494
Bangladesh	158.086	201.717	197.868	208.042	213.676	209.845	173.748	159.038	144.959	144.959
Bhutan	8.198	8.198	8.435	8.435	8.435	8.535	8.535	8.663	8.663	8.663
Brunei Darism	0.012	0.013	0.021	0.023	0.024	0.044	0.044	0.050	0.050	0.050
Cambodia	28.932	29.090	28.832	30.489	30.542	31.076	31.643	30.370	30.703	30.703
China	710.490	747.190	786.950	826.710	866.470	906.230	945.990	985.750	1 025.510	1 065.270
India	1 569.267	1 810.598	2 111.273	2 128.467	2 559.518	2 681.925	3 019.478	3 051.825	4 400.584	5 386.899
Indonesia	1 690.221	1 727.364	2 673.496	2 684.912	2 719.868	3 112.758	3 972.647	4 427.847	4 661.197	4 782.197
Lao PDR	3.969	3.969	3.813	3.394	2.623	2.637	2.637	2.637	2.637	2.637
Malaysia	1 246.168	534.950	540.004	540.015	540.199	540.236	540.284	540.441	540.605	540.605
Maldives	8.895	12.198	17.885	30.407	40.407	41.407	53.407	56.407	69.907	76.121
Mongolia	17.161	17.161	17.161	17.161	17.160	17.154	17.179	17.179	17.179	16.698
Myanmar	88.649	102.819	111.270	114.260	110.274	106.225	153.878	153.878	158.878	182.878
Nepal	41.487	83.299	85.545	85.694	86.713	89.397	93.101	90.660	94.534	96.336
Pakistan	22.387	33.726	34.567	37.885	38.102	38.170	38.175	38.032	37.888	37.888
Philippines	35.995	36.123	47.124	83.988	84.582	85.443	85.156	88.268	88.974	88.974
Sri Lanka	12.209	12.191	12.108	12.108	12.108	12.108	12.108	12.108	12.108	12.108
Tajikistan	17.923	18.398	18.398	18.398	18.848	18.848	18.848	18.848	18.848	18.848
Thailand	0.962	1.124	1.319	1.366	474.894	490.488	499.347	385.956	385.956	385.956
Timor Leste	1.400	1.094	0.875	0.657	0.422	0.422	0.461	0.493	0.493	0.806
Uzbekistan	2.200	3.025	3.325	3.325	3.325	3.325	3.325	3.325	3.325	3.325
Viet Nam	240.428	240.428	336.428	154.428	82.928	66.428	66.428	66.428	66.428	66.428

Total off-grid renewable energy

Total de l'énergie renouvelable hors réseau

Total de energía renovable fuera de la red

CAP (MW)	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
C America + Carib	110.526	143.472	145.652	162.806	171.011	176.878	183.109	192.749	192.769	197.139
Antigua Barb	0.010	0.414	0.414	0.414	0.414	0.414	0.414	0.414	0.414	0.414
Aruba	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011
Bahamas	1.883	1.771	1.740	2.040	2.040	6.040	6.040	6.040	6.040	6.040
Barbados	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Belize	0.391	0.428	0.426	1.076	1.142	1.142	1.182	1.229	1.229	1.229
BES Islands								0.130	0.130	0.130
Br Virgin Is	1.425	1.426	1.435	1.791	1.996	1.985	2.000	3.000	3.000	3.000
Costa Rica	0.573	0.592	0.387	0.401	0.607	0.484	0.488	0.450	0.450	0.450
Cuba	4.246	4.731	4.744	12.546	12.537	12.524	12.040	12.027	12.027	12.027
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	22.877	54.048	56.178	56.515	57.235	59.235	67.019	74.337	74.337	74.347
El Salvador	0.213	0.170	0.195	4.089	4.091	4.095	4.137	4.141	4.141	4.141
Guatemala	0.795	1.095	1.118	1.253	1.290	1.286	1.191	1.279	1.301	1.301
Haiti	3.620	3.664	3.863	3.698	3.680	3.695	1.510	1.510	1.510	5.870
Honduras	14.174	14.753	16.765	16.175	23.199	23.199	23.224	23.224	23.224	23.224
Jamaica	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013
Nicaragua	0.010	0.010	0.010	2.410	2.410	2.410	3.505	4.609	4.609	4.609
Panama	60.000	60.000	60.000	60.020	60.020	60.020	60.020	60.020	60.020	60.020
Puerto Rico		0.062	0.070	0.070	0.042	0.042	0.042	0.042	0.042	0.042
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	0.176	0.176	0.176
Trinidad Tobago	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
US Virgin Is	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100
Eurasia	0.250	0.250	0.262	0.656	0.656	0.656	0.656	0.656	0.656	0.656
Georgia	0.250	0.250	0.262	0.656	0.656	0.656	0.656	0.656	0.656	0.656
Europe	67.956	120.303	212.415	321.285	612.549	980.889	1 055.740	1 055.740	1 085.740	1 085.740
Austria	6.487	6.963	7.197	7.697	8.197	8.697	8.697	8.697	8.697	8.697
France			33.421	69.485	243.771	373.410	373.410	373.410	373.410	373.410
Iceland	3.527	4.333	5.275	7.001	7.001	7.001	7.001	7.001	7.001	7.001
Ireland	5.927	17.135	31.972	57.478	89.892	135.272	135.272	135.272	165.272	165.272
Lithuania		3.669	10.000	30.000	84.000	171.000	171.000	171.000	171.000	171.000
Norway			15.292	17.292	18.292	18.792	18.792	18.792	18.792	18.792
Portugal	19.774	39.815	49.585	68.702	90.222	171.210	171.210	171.210	171.210	171.210
Serbia	6.241	8.388	9.766	12.448	19.008	39.710	114.561	114.561	114.561	114.561
Spain	26.000	27.000	32.907	35.182	35.166	36.797	36.797	36.797	36.797	36.797
Sweden		13.000	17.000	16.000	17.000	19.000	19.000	19.000	19.000	19.000
European Union	58.188	107.582	182.082	284.544	568.248	915.386	915.386	915.386	945.386	945.386
Middle East	129.850	152.654	306.713	310.927	317.198	318.203	576.022	1 258.367	1 826.625	2 386.625
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	40.340	40.340	40.340	40.340
Jordan	0.588	0.588	0.623	0.670	2.385	3.335	3.335	3.335	3.335	3.335
Kuwait	2.400	2.400	2.400	2.400	2.400	2.400	2.400	2.400	2.400	2.400
Lebanon	3.984	4.298	7.880	7.880	7.880	7.890	8.181	8.181	8.181	8.181
Oman	0.002	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012
Palestine	0.816	0.816	0.832	2.915	3.035	3.035	3.035	3.035	3.035	3.035
Syrian AR							249.000	931.000	1 500.000	2 060.000
United Arab Em	3.208	3.238	3.407	4.672	5.597	5.597	5.897	6.197	6.197	6.197
Yemen	80.634	103.084	253.341	254.160	257.671	257.716	263.735	263.489	262.747	262.747
N America			0.994	2.683	2.885	9.556	9.249	9.249	9.369	9.494
Greenland			0.189	0.189	0.391	0.640	0.676	0.676	0.796	0.921
Mexico			0.805	2.494	2.494	8.916	8.573	8.573	8.573	8.573
Oceania	143.488	145.728	148.351	150.282	151.214	153.144	154.688	158.144	159.552	159.926
Amer Samoa	1.504	1.854	1.854	1.504	1.504	1.504	1.504	1.504	1.504	1.504
Cook Is	0.047	0.047	1.869	2.606	2.606	2.606	2.606	2.606	2.606	2.606
Fiji	4.979	5.149	5.562	5.653	5.755	6.044	6.335	7.319	7.319	7.593
Fr Polynesia	3.248	3.548	3.448	3.548	3.548	3.548	3.548	3.548	3.548	3.548
Kiribati	0.017	0.017	0.017	0.017	0.017	0.017	0.000	2.277	2.277	2.277
Marshall Is	0.660	0.720	0.737	0.737	0.737	0.737	0.737	0.737	0.737	0.737
Micronesia	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137
Nauru	0.008	0.009	0.009	0.167	0.158	0.158	0.158	0.158	0.158	0.158
New Caledon								0.185	0.185	0.185
Palau	0.170	0.170	0.170	0.235	0.538	0.538	0.538	0.538	0.538	0.538
Papua N Guin	128.834	128.887	128.830	129.399	129.899	131.558	131.234	131.234	132.234	132.334
Samoa	0.000	0.025	0.025	0.183	0.158	0.158	0.000	0.000	0.000	0.000
Solomon Is	1.938	2.313	2.313	2.200	2.200	2.200	3.910	3.910	3.910	3.910
Tonga	0.251	0.251	0.437	0.437	0.437	0.437	0.437	0.437	0.621	0.621
Tuvalu	1.316	1.321	1.332	1.332	1.332	1.332	1.332	1.332	1.556	1.556
Vanuatu	0.379	1.280	1.611	2.127	2.188	2.170	2.212	2.222	2.222	2.222

Total off-grid renewable energy

Total de l'énergie renouvelable hors réseau

Total de energía renovable fuera de la red

CAP (MW)	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
S America	533.428	528.547	566.922	579.983	589.569	635.746	661.114	663.207	760.285	761.745
Argentina	100.971	100.838	100.924	101.391	101.215	103.030	104.094	103.822	103.822	103.822
Bolivia	91.327	82.499	123.797	129.303	129.552	128.624	128.906	147.780	147.780	147.780
Brazil	3.941	3.943	3.971	3.991	4.019	4.019	4.031	4.031	4.031	4.031
Chile	0.870	0.998	1.161	1.198	1.965	2.098	2.893	2.912	2.912	2.912
Colombia	1.897	6.937	8.997	14.100	21.290	24.020	26.360	29.068	31.408	33.748
Ecuador	12.330	12.330	13.880	13.880	13.880	13.900	14.900	15.590	67.300	19.580
Falklands Malv	0.410	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	4.211	4.211	4.211	4.211	4.211
Guyana	17.874	17.884	17.781	17.769	17.981	17.803	20.251	25.698	29.448	33.498
Paraguay	0.057	0.057	0.057	0.057	0.170	0.170	1.186	1.186	1.186	2.031
Peru	244.947	238.135	224.136	222.219	222.419	213.866	221.109	194.806	231.234	269.734
South Georgia	0.256	0.256	0.256	0.256	0.256	0.256	0.256	0.256	0.271	0.271
Suriname	1.520	1.555	2.107	2.120	2.770	3.770	6.070	6.070	7.755	11.020
Uruguay	1.937	7.614	14.354	18.198	18.551	19.689	26.557	27.487	28.637	28.817
Venezuela	53.880	53.880	53.880	53.880	53.880	99.880	99.880	99.880	99.880	99.880

Total off-grid renewable energy

Total de l'énergie renouvelable hors réseau

Total de energía renovable fuera de la red

PROD (GWh)	2016	2017	2018	2019	2020	2021	2022	2023	2024
World	19 092.284	21 508.425	29 268.066	31 891.266	36 969.259	41 005.398	48 713.068	53 866.303	55 405.057
Africa	948.753	1 136.796	1 337.424	1 440.897	1 564.156	1 729.801	1 824.812	1 977.256	2 089.589
Algeria	54.400	54.400	45.000	45.000	43.000	46.000	85.000	98.570	98.570
Angola	61.591	94.938	94.956	96.275	96.286	96.383	96.409	96.452	96.452
Benin	1.010	1.316	1.505	3.056	4.378	6.434	9.445	12.487	12.487
Botswana	3.254	3.500	4.020	4.023	4.023	4.028	4.028	4.028	4.036
Burkina Faso	5.400	5.900	30.900	32.700	33.500	34.800	35.800	35.700	35.700
Burundi	16.090	16.585	15.686	15.505	15.844	14.845	13.546	14.309	14.842
Cabo Verde	0.437	0.694	1.627	1.856	2.127	2.526	2.646	2.927	2.927
Cameroon	0.786	16.485	16.846	20.539	21.723	39.140	39.245	39.842	39.842
Cent Afr Rep	1.961	2.053	2.089	2.085	2.145	2.143	2.139	2.290	2.407
Chad	9.184	9.200	9.788	9.781	9.857	10.626	10.698	10.736	10.736
Comoros	1.151	1.638	1.638	1.666	1.648	0.517	0.049	0.100	0.100
Congo DR	6.321	51.960	93.605	130.973	135.466	139.287	142.867	144.398	183.278
Congo Rep	0.036	0.073	0.082	0.080	0.668	0.723	0.819	0.932	1.012
Cote d Ivoire	0.600	1.300	2.700	5.500	8.300	10.100	11.700	11.800	11.800
Djibouti	0.700	0.700	0.700	0.700	0.700	0.700	0.700	0.700	0.700
Egypt	38.383	34.395	37.445	36.445	34.955	38.865	38.505	47.365	47.365
Eq Guinea	0.197	0.436	0.436	0.413	0.400	0.233	0.007	0.007	0.007
Eritrea	19.244	46.123	50.923	51.029	51.004	49.509	48.859	48.859	48.859
Eswatini	3.600	3.604	3.604	3.604	3.655	3.655	3.655	3.655	3.655
Ethiopia	20.846	22.394	19.765	19.765	32.306	33.906	33.906	33.906	34.498
Gabon	2.697	2.717	2.727	2.737	2.727	3.277	3.307	3.297	3.287
Gambia	1.274	1.770	1.831	1.836	1.821	1.738	1.609	1.622	1.634
Ghana	35.434	37.113	37.261	37.001	36.013	36.124	36.119	36.263	36.341
Guinea	10.193	9.680	28.902	30.620	31.569	32.079	33.771	34.847	35.342
Guinea Bissau	1.132	1.526	2.949	2.943	2.844	3.314	2.913	3.222	3.468
Kenya	94.169	121.625	126.932	137.515	145.447	168.668	175.357	181.568	184.078
Lesotho	0.670	0.414	0.224	0.551	0.563	0.501	0.763	0.986	0.986
Liberia	26.100	26.835	27.371	27.988	29.233	28.686	29.550	29.831	29.831
Libya	7.791	7.791	7.791	7.791	7.791	7.791	7.791	7.791	7.791
Madagascar	34.137	35.744	36.473	39.953	41.023	40.796	42.098	50.665	52.981
Malawi	6.367	7.493	8.272	8.461	12.245	12.333	12.855	12.855	13.123
Mali	21.066	25.138	27.117	30.225	30.866	78.723	79.578	78.198	77.027
Mauritania	47.139	45.578	62.832	56.887	58.827	71.968	59.244	68.183	71.183
Mauritius	1.408	1.408	1.408	1.408	1.408	1.408	1.408	1.408	1.408
Morocco	40.286	44.589	44.590	42.726	42.842	42.842	42.842	42.842	42.842
Mozambique	14.378	15.054	15.276	19.419	28.672	40.903	56.384	106.071	121.832
Namibia	2.544	2.621	25.299	25.841	26.751	26.784	26.811	15.776	15.886
Niger	10.800	11.200	11.300	11.600	12.600	12.300	13.000	17.800	17.800
Nigeria	45.025	57.981	65.583	78.823	103.804	120.486	145.926	176.528	188.470
Reunion	0.001	0.001	0.001	2.038	2.281	2.281	2.281	2.281	2.281
Rwanda	4.044	4.312	4.766	5.830	6.536	7.115	8.046	8.575	8.308
Sao Tome Prn	0.160	0.362	0.362	0.363	0.352	0.211	0.013	0.013	0.013
Senegal	1.276	4.239	8.846	10.798	11.681	13.574	14.337	14.700	13.372
Seychelles	0.095	0.095	1.291	1.291	1.291	5.771	5.771	5.771	5.771
Sierra Leone	1.299	10.510	10.771	13.360	14.526	24.713	25.201	25.549	24.988
Somalia	6.700	8.500	9.500	9.800	23.000	35.500	72.200	77.600	85.000
South Africa	24.925	29.537	29.301	30.012	29.617	29.441	29.319	30.430	31.501
South Sudan	1.855	2.929	3.342	3.723	4.098	3.800	4.474	5.609	5.609
Sudan	18.496	20.455	20.455	21.087	27.109	27.109	27.109	27.109	27.109
Tanzania	154.366	159.474	161.522	159.078	165.640	167.105	167.609	168.593	179.666
Togo	0.122	0.848	8.860	12.110	14.810	17.450	20.290	22.545	14.790
Tunisia	4.000	4.000	4.000	13.000	16.000	16.000	16.000	16.000	16.000
Uganda	9.245	13.917	18.476	21.704	20.987	20.991	20.926	20.693	19.496
Zambia	66.892	45.413	79.326	82.776	98.199	85.853	52.535	65.552	92.924
Zimbabwe	7.478	8.230	9.152	8.609	8.993	7.947	7.352	7.419	8.178

Total off-grid renewable energy

Total de l'énergie renouvelable hors réseau

Total de energía renovable fuera de la red

PROD (GWh)	2016	2017	2018	2019	2020	2021	2022	2023	2024
Asia	15 439.088	17 640.614	24 980.860	27 501.572	32 292.818	35 914.125	43 371.373	48 467.005	49 614.360
Afghanistan	142.649	150.405	137.494	160.160	149.457	126.952	98.685	101.803	134.644
Bangladesh	214.151	273.925	268.652	282.591	290.031	284.782	235.329	215.176	195.888
Bhutan	11.195	11.388	18.222	17.968	24.002	21.302	19.167	20.099	17.359
Brunei Darism	0.016	0.017	0.027	0.030	0.031	0.057	0.057	0.066	0.066
Cambodia	33.616	26.745	20.515	22.151	21.889	22.285	23.107	24.161	24.644
China	911.288	957.274	1 007.013	1 056.752	1 106.491	1 156.231	1 205.970	1 255.709	1 305.448
Chinese Taipei		0.000							
India	2 984.679	3 352.836	4 562.817	6 511.648	8 056.152	8 079.244	9 405.500	9 537.499	13 425.683
Indonesia	9 763.247	11 257.935	16 685.000	16 502.000	16 974.000	19 601.000	25 442.000	27 288.000	27 660.000
Kazakhstan	0.000	0.000	0.000	0.000	0.000				
Korea Rep	0.000	0.000							
Lao PDR	12.891	14.891	15.441	11.567	9.411	9.430	9.230	8.730	9.230
Malaysia	96.654	185.546	788.222	1 568.294	2 354.163	3 268.208	3 268.267	3 268.460	3 268.662
Maldives	13.697	18.651	27.182	45.965	60.965	62.465	80.465	84.965	105.215
Mongolia	10.790	10.791	10.791	10.791	10.793	10.795	10.798	10.798	10.798
Myanmar	259.889	295.019	321.112	331.442	326.398	315.701	392.081	392.081	392.081
Nepal	152.668	219.278	219.656	231.204	237.510	219.786	248.325	235.657	231.984
Pakistan	99.998	105.571	85.015	105.728	112.674	108.754	100.921	100.715	117.853
Philippines	126.713	135.303	168.122	202.858	193.490	207.516	270.201	287.272	285.108
Singapore		0.000							
Sri Lanka	18.823	18.798	18.676	18.676	18.676	18.676	18.676	18.676	18.676
Tajikistan	178.875	178.875	178.875	178.875	178.876	178.876	178.876	178.876	178.876
Thailand					1 993.079	2 057.907	2 199.499	5 274.039	2 067.898
Timor Leste	3.273	2.799	2.460	2.122	0.140	0.132	0.193	0.197	0.221
Uzbekistan	4.391	6.038	6.637						
Viet Nam	399.585	418.529	438.931	240.750	174.590	164.026	164.026	164.026	164.026
C America + Carib	431.504	558.572	588.399	521.002	563.530	562.876	587.186	587.462	578.979
Antigua Barb	0.016	0.642	0.642	0.642	0.642	0.642	0.652	0.652	0.652
Bahamas	3.251	3.161	3.050	3.259	3.492	6.600	9.708	9.708	9.708
Belize	0.596	0.622	0.649	1.105	1.604	1.648	1.676	1.746	1.779
Br Virgin Is	3.015	3.085	3.099	4.088	4.174	4.439	4.441	4.441	4.441
Costa Rica	2.057	2.213	2.251	2.270	2.355	2.542	2.542	2.542	2.542
Cuba		0.973	1.373	15.089	20.997	20.979	20.579	20.179	20.168
Curacao	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007
Dominica	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
Dominican Rep	126.305	259.526	269.300	240.128	241.557	241.697	261.825	281.360	281.360
El Salvador	0.590	0.532	0.478	3.642	6.786	6.791	6.829	6.867	6.870
Guatemala	0.238	0.447	0.640	0.750	0.869	0.892	0.823	0.818	0.818
Haiti	2.099	2.363	2.574	2.614	2.465	2.463	2.480	2.480	2.480
Honduras	12.482	11.767	12.438	15.639	29.219	29.219	29.258	38.456	29.258
Jamaica	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022
Nicaragua	1.229			8.128	7.324	11.903	11.873	12.473	13.163
Panama	278.857	272.427	291.040	222.777	241.195	232.231	233.670	204.910	204.910
Puerto Rico		0.045	0.096	0.102	0.082	0.061	0.061	0.061	0.061
St Kitts Nevis	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
St Lucia	0.463	0.463	0.463	0.463	0.463	0.463	0.463	0.463	0.463
US Virgin Is	0.272	0.272	0.272	0.272	0.272	0.272	0.272	0.272	0.272
Eurasia	0.318	0.318	0.332	0.833	0.833	0.833	0.833	0.833	0.833
Georgia	0.318	0.318	0.332	0.833	0.833	0.833	0.833	0.833	0.833
Russian Fed	0.000	0.000	0.000	0.000	0.000	0.000			
Europe	38.274	55.049	86.546	104.180	127.246	201.817	384.013	523.429	689.247
France		2.714	5.425	15.355	29.737	76.282	177.799	311.380	469.772
Iceland	2.730	3.354	4.083	5.419	5.419	5.419	5.419	5.419	5.419
Moldova Rep		0.000							
Norway			13.610	15.390	15.548	15.973	16.000	16.500	16.700
Serbia	7.177	9.647	11.231	14.316	21.860	45.667	131.746	131.746	131.746
Spain	28.367	29.334	36.197	38.700	38.682	40.476	41.049	42.384	47.593
Sweden		10.000	16.000	15.000	16.000	18.000	12.000	16.000	18.017
European Union	28.367	42.048	57.622	69.055	84.419	134.758	230.848	369.764	535.382
Middle East	232.178	275.685	565.028	572.873	580.892	580.969	593.628	593.152	605.503
Iran IR	0.635	0.635	0.635	0.635	0.635	0.635	0.635	0.635	0.635
Iraq	59.653	59.653	63.773	63.773	63.773	63.773	63.773	63.773	63.773
Jordan	0.973	0.973	0.973	0.973	0.973	0.973	0.973	0.973	0.973
Lebanon	6.801	6.801	0.801	0.801	0.801	0.801	0.801	0.801	0.801
Oman	0.003	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024
Palestine	1.486	1.486	1.514	5.307	5.526	5.526	5.526	5.526	5.526
Syrian AR	1.051	1.051	1.051	1.051	1.051	1.051	1.051	1.051	14.839
United Arab Em	5.389	5.389	5.535	8.000	9.000	9.000	10.000	10.000	10.000
Yemen	156.187	199.673	490.722	492.309	499.109	499.186	510.845	510.369	508.932
N America			1.620	4.580	4.757	16.225	15.661	15.824	15.995
Greenland			0.210	0.210	0.387	0.605	0.641	0.803	0.974
Mexico			1.410	4.370	4.370	15.620	15.020	15.021	15.021

Total off-grid renewable energy

Total de l'énergie renouvelable hors réseau

Total de energía renovable fuera de la red

PROD (GWh)	2016	2017	2018	2019	2020	2021	2022	2023	2024
Oceania	485.198	441.018	445.041	462.642	462.726	463.681	414.299	362.663	362.593
Amer Samoa	3.064	3.910	3.680	2.790	2.790	2.790	2.264	2.264	2.264
Cook Is	0.063	1.150	5.553	5.332	4.606	2.838	2.817	2.598	2.264
Fiji	6.900	7.118	7.735	7.848	7.981	8.353	8.784	10.027	10.113
Fr Polynesia	1.778	1.578	1.478	1.278	1.078	0.978	0.878	0.778	0.978
Kiribati	0.028	0.028	0.028	0.028	0.028	0.028	0.000	3.848	3.848
Marshall Is	0.898	0.978	1.002	1.002	1.002	1.002	1.002	1.002	1.002
Micronesia	0.197	0.197	0.197	0.197	0.197	0.197	0.197	0.197	0.197
Nauru	0.010	0.012	0.012	0.216	0.204	0.204	0.204	0.204	0.204
New Caledon	0.585	0.673	0.710	0.767	0.832	0.920	0.920	0.920	0.920
Palau	0.228	0.228	0.228	0.315	0.720	0.720	0.720	0.720	0.720
Papua N Guin	463.603	415.342	413.751	431.229	431.523	433.557	382.043	325.620	325.620
Samoa	0.011	0.027	0.025	0.257	0.221	0.009	0.009	0.004	0.004
Solomon Is	5.507	5.612	5.612	5.460	5.460	6.037	8.329	8.329	8.329
Tokelau	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022
Tonga	0.342	0.342	0.594	0.594	0.594	0.594	0.594	0.594	0.594
Tuvalu	1.152	1.181	1.129	0.986	1.023	1.023	1.023	1.023	1.023
Vanuatu	0.810	2.620	3.285	4.321	4.445	4.409	4.493	4.513	4.513
S America	1 516.972	1 400.373	1 262.816	1 282.687	1 372.301	1 535.071	1 521.263	1 338.680	1 447.958
Argentina	189.097	191.633	191.606	192.016	192.231	193.444	195.574	196.160	195.978
Bolivia	124.190	131.055	103.220	78.930	202.030	280.410	257.350	152.960	166.990
Brazil	6.426	6.426	6.454	6.494	6.533	6.548	6.570	6.579	6.578
Chile	161.138	44.208	60.510	30.591	58.235	168.462	189.976	189.987	190.001
Colombia	3.078	9.795	17.807	25.306	36.394	50.832	47.368	51.127	54.887
Ecuador	26.490	26.328	26.278	31.506	29.820	24.460	18.700	18.212	14.538
Falklands Malv	1.314	1.314	1.314	1.314	1.314	1.314	1.314	1.314	1.314
Fr Guiana	3.880	4.970	4.730	3.650	3.833	16.214	17.607	15.249	16.281
Guyana	19.358	16.870	13.635	13.122	16.764	13.927	14.619	20.222	25.659
Paraguay	0.083	0.083	0.083	0.083	0.169	0.255	0.996	1.738	1.738
Peru	864.784	839.529	748.416	775.660	737.169	691.449	675.022	586.057	672.109
South Georgia	0.674	0.496	0.706	0.762	0.762	0.762	0.762	0.762	0.762
Suriname	6.029	6.152	6.549	6.956	7.433	8.621	10.997	12.653	13.866
Uruguay	3.751	17.204	29.418	46.847	50.644	50.143	59.098	60.350	61.947
Venezuela	106.680	104.310	52.090	69.450	28.970	28.230	25.310	25.310	25.310

Off-grid hydropower

Hydroélectricité hors réseau

Hidroeléctrica fuera de la red

CAP (MW)	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
World	600.490	622.040	1 573.026	1 595.563	1 601.430	1 618.488	1 615.387	1 635.395	1 808.248	1 814.248
Africa	90.587	126.175	136.566	148.950	150.495	151.408	151.766	153.102	153.102	155.102
Angola	22.859 e	35.279 e	35.279 e	35.279 e	35.279 e	35.279 e	35.279 e	35.279 e	35.279 e	35.279 u
Burundi	1.603 u	1.603 u	1.603 e	1.603 e	1.603 e	1.603 e	1.603 e	1.603 e	1.603 e	1.603 e
Cameroon	0.097 u	0.097 u	0.097 u	0.516 u	0.516 u	0.516 u	0.516 u	0.516 e	0.516 e	0.516 u
Cent Afr Rep	0.200 e	0.200 e	0.200 e	0.200 e	0.200 e	0.200 e	0.200 e	0.200 e	0.200 e	0.200 u
Congo DR		10.800 e	20.800 e	30.700 e	30.700 e	30.700 e	30.700 e	30.700 e	30.700 e	30.700 u
Eswatini	1.800 e	1.800 e	1.800 e	1.800 e	1.800 e	1.800 e	1.800 e	1.800 e	1.800 e	1.800 u
Ethiopia	1.279 o	1.279 o	1.279 u	1.279 u	1.279 o	1.279 o	1.279 u	1.279 u	1.279 e	1.279 u
Gabon	0.580 e	0.580 e	0.580 e	0.580 e	0.580 e	0.580 e	0.580 e	0.580 e	0.580 e	0.580 u
Ghana					0.045 e	0.045 e	0.045 e	0.045 e	0.045 e	0.045 u
Guinea	2.220 e	2.220 e	2.220 e	2.220 e	2.220 e	2.220 e	2.220 e	2.220 e	2.220 e	2.220 u
Kenya	13.655 e	19.775 e	19.793 e	19.819 e	19.819 e	19.819 e	19.857 e	20.513 e	20.513 e	20.513 u
Lesotho	0.180 o	0.180 o	0.180 o	0.180 o	0.180 o	0.180 o	0.180 o	0.180 o	0.180 o	0.180 o
Liberia	4.860 e	4.860 e	4.860 e	4.860 e	4.860 e	4.860 e	4.860 e	4.860 e	4.860 e	6.860 u
Madagascar	5.282 e	5.397 e	5.457 e	5.757 e	5.557 e	5.557 e	5.557 e	5.557 e	6.117 e	6.117 u
Malawi	1.720 e	1.720 e	1.848 e	2.056 e	2.056 e	2.469 e	2.469 e	2.469 e	2.469 e	2.469 u
Mali	0.003 e	0.003 e	0.003 e	0.003 e	0.003 e	0.003 e	0.003 e	0.003 e	0.003 e	0.003 u
Mauritius	0.700 e	0.700 e	0.700 e	0.700 e	0.700 e	0.700 e	0.700 e	0.700 e	0.700 e	0.700 u
Mozambique	1.355 e	1.378 e	1.378 e	1.378 e	1.378 e	1.378 e	1.378 e	1.378 e	1.378 e	1.378 u
Nigeria	0.400 e	0.400 e	0.400 e	0.400 e	0.400 e	0.400 e	0.400 e	0.400 e	0.400 e	0.400 u
Rwanda	1.051 e	1.051 e	1.072 e	1.123 e	1.123 e	1.123 e	1.123 e	1.123 e	1.123 e	1.123 u
Sierra Leone	0.250 e	4.890 e	4.890 e	4.890 e	4.890 e	4.890 e	4.890 e	4.890 e	4.890 e	4.890 u
South Africa	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	7.650 u
Tanzania	20.345 e	21.435 e	21.435 e	22.335 e	24.035 e	24.535 e	24.855 e	24.855 e	24.855 e	24.855 u
Uganda	0.003 e	0.383 e	0.547 e	0.507 e	0.507 e	0.507 e	0.507 e	0.627 e	0.627 e	0.627 e
Zambia	1.913 e	1.913 e	1.913 e	2.553 e	2.553 e	2.553 e	2.553 e	2.553 e	2.553 e	2.553 u
Zimbabwe	0.585 e	0.585 e	0.585 e	0.565 e	0.565 e	0.565 e	0.565 e	0.565 e	0.565 e	0.565 e
Asia	284.631	289.869	1 228.379	1 242.368	1 245.790	1 267.218	1 264.976	1 272.183	1 452.353	1 453.263
Afghanistan	34.544 u	37.993 u	37.993 u	37.993 u	37.993 u	38.108 u	38.138 u	38.138 u	38.138 u	38.138 u
Bhutan	8.078 u	8.078 u	8.315 u	8.315 u	8.315 u	8.335 u	8.335 u	8.335 u	8.335 u	8.335 u
India	84.675 u	84.675 u	84.675 u	84.675 u	84.675 u	84.675 u	84.675 u	84.675 u	84.675 u	84.675 u
Indonesia	15.437 u	15.437 u	944.380 u	944.880 o	944.880 u	964.300 u	963.410 u	968.000 u	1 146.860 o	1 146.860 u
Lao PDR	2.005 u	2.005 u	2.005 u	2.005 u	2.005 u	2.005 u	2.005 u	2.005 u	2.005 u	2.005 u
Malaysia	0.708 e	0.741 e	0.735 e	0.765 e	0.765 e	0.765 e	0.765 e	0.765 e	0.765 e	0.765 u
Mongolia	2.992 u	2.992 u	2.992 u	2.992 u	2.992 u	2.992 o	2.992 u	2.992 u	2.992 u	3.500 u
Myanmar	7.420 u	7.420 u	7.420 u	7.420 u	7.420 u	7.420 u	7.420 u	7.420 u	7.420 u	7.420 u
Nepal	28.414 u	29.659 u	30.915 u	32.368 u	33.184 u	34.932 u	35.436 u	35.842 u	37.154 u	37.556 u
Pakistan	21.544 e	21.580 e	21.660 e	23.666 e	23.666 e	23.666 u	23.666 u	23.666 u	23.666 u	23.666 u
Philippines	12.595 o	12.595 o	20.595 o	30.595 o	30.595 u	30.595 u	28.425 u	30.605 u	30.604 u	30.604 u
Sri Lanka	4.446 u	4.446 u	4.446 u	4.446 u	4.446 u	4.446 u	4.446 u	4.446 u	4.446 u	4.446 u
Tajikistan	17.923 e	18.398 e	18.398 e	18.398 e	18.848 e	18.848 e	18.848 e	18.848 e	18.848 e	18.848 u
Thailand	0.498 e	0.498 e	0.498 e	0.498 e	2.654 u	2.779 u	3.063 u	3.094 u	3.093 u	3.093 u
Timor Leste	0.352 u	0.352 u	0.352 u	0.352 u	0.352 u	0.352 u	0.352 u	0.352 u	0.352 u	0.352 u
Viet Nam	43.000 u	43.000 u	43.000 u	43.000 u	43.000 u	43.000 u	43.000 u	43.000 u	43.000 u	43.000 u
C America + Carib	14.907	15.040	15.120	15.165	15.185	15.185	13.175	13.175	13.175	14.675
Belize	0.150 e	0.150 e	0.150 e	0.150 e	0.150 e	0.150 e	0.150 e	0.150 e	0.150 e	0.150 u
Cuba	3.884 u	3.884 e	3.884 o	3.884 o	3.884 u	3.884 e	3.884 u	3.884 u	3.884 u	3.884 o
Dominican Rep	1.317 o	1.448 o	1.528 o	1.665 o	1.685 o	1.685 u	1.860 u	1.860 e	1.860 e	1.860 o
El Salvador	0.140 e	0.097 e	0.097 e	0.005 e	0.005 e	0.005 e	0.005 e	0.005 e	0.005 e	0.005 u
Guatemala	0.601 e	0.646 e	0.646 e	0.646 e	0.646 e	0.646 e	0.646 e	0.646 e	0.646 e	0.646 u
Haiti	2.185 u	2.185 e	2.185 e	2.185 e	2.185 e	2.185 e				1.500 o
Honduras	6.630 e	6.630 e	6.630 e	6.630 e	6.630 e	6.630 e	6.630 e	6.630 e	6.630 o	6.630 u
Nicaragua	0.000 e									
Middle East	1.340	1.340	1.340	1.340	1.340	1.340	1.340	1.340	1.340	1.340
Iraq	1.340 u	1.340 u	1.340 u	1.340 u	1.340 u	1.340 u	1.340 u	1.340 u	1.340 u	1.340 u
Oceania	60.024	60.024	60.024	60.024	60.024	60.024	60.024	60.024	60.024	60.024
Fiji	0.130 u	0.130 u	0.130 u	0.130 u	0.130 u	0.130 u	0.130 u	0.130 u	0.130 u	0.130 e
Papua N Guin	59.485 u	59.485 u	59.485 u	59.485 u	59.485 u	59.485 u	59.485 u	59.485 u	59.485 u	59.485 o
Solomon Is	0.331 u	0.331 u	0.331 u	0.331 u	0.331 u	0.331 u	0.331 u	0.331 u	0.331 e	0.331 e
Vanuatu	0.078 u	0.078 u	0.078 u	0.078 u	0.078 u	0.078 u	0.078 u	0.078 u	0.078 u	0.078 o
S America	149.001	129.592	131.597	127.716	128.596	123.313	124.106	135.571	128.254	129.844
Argentina	4.098 o	4.098 o	4.098 o	4.098 o	4.098 o	4.098 o	4.098 o	4.098 o	4.098 u	4.098 u
Bolivia	1.200 e	0.800 e	0.800 u	0.800 o	0.800 u	0.800 u	0.800 u	1.200 o	1.200 o	1.200 u
Brazil	0.020 e	0.020 e	0.020 e	0.020 e	0.020 e	0.020 e	0.020 e	0.020 e	0.020 e	0.020 e
Chile	0.765 o	0.765 o	0.765 o	0.765 u	1.445 o	1.445 o	2.245 u	2.245 u	2.245 u	2.245 u
Colombia	0.318 u	5.318 o	5.318 o	9.405 u	9.405 u	4.275 e	4.275 e	4.643 e	4.643 u	4.643 u
Ecuador	5.660 o	5.660 o	6.060 o	6.060 o	6.060 o	6.060 o	6.060 o	6.060 o	3.200 o	3.290 u
Fr Guiana	1.050 o	1.050 o	1.050 o	1.050 o	1.050 o	1.050 o	1.050 o	1.050 o	1.050 o	1.050 o
Guyana	2.330 u	2.330 u	2.330 u	2.330 u	2.330 u	2.330 u	2.330 u	2.330 u	3.050 u	4.550 o
Peru	132.500 o	108.456 o	110.061 o	102.073 e	102.273 e	102.120 e	102.113 e	112.810 o	107.638 o	107.638 u
South Georgia	0.250 u	0.250 u	0.250 u	0.250 u	0.250 u	0.250 u	0.250 u	0.250 u	0.265 u	0.265 u
Suriname		0.035 u	0.035 u	0.035 u	0.035 u	0.035 u	0.035 u	0.035 u	0.035 u	0.035 u
Venezuela	0.810 u	0.810 u	0.810 u	0.810 u	0.810 u	0.810 u	0.810 u	0.810 u	0.810 u	0.810 u

Off-grid hydropower

Hydroélectricité hors réseau

Hidroeléctrica fuera de la red

PROD (GWh)	2016	2017	2018	2019	2020	2021	2022	2023	2024
World	2 405.797	2 367.233	7 213.733	7 177.304	7 476.072	7 562.384	7 472.836	7 164.820	8 329.192
Africa	387.808	477.264	546.593	591.005	611.790	600.903	567.291	585.705	612.655
Algeria		0.000 e							
Angola	61.125 e	94.336 e	94.336 e	94.336 e	94.336 e	94.336 e	94.336 e	94.336 e	94.336 e
Burundi	7.723 e	7.723 e	7.723 e	7.723 e	7.723 e	7.723 e	7.723 e	7.723 e	7.723 o
Cameroon	0.579 e	0.579 e	0.579 e	3.096 e	3.096 e	3.096 e	3.096 e	3.096 e	3.096 e
Cent Afr Rep	1.664 e	1.664 e	1.664 e	1.664 e	1.664 e	1.664 e	1.664 e	1.664 e	1.664 e
Congo DR		39.026 e	75.161 e	110.934 e	110.934 e	110.934 e	110.934 e	110.934 e	110.934 e
Eswatini	3.600 e	3.600 e	3.600 e	3.600 e	3.600 e	3.600 e	3.600 e	3.600 e	3.600 e
Ethiopia	0.000 o	0.000 e							
Gabon	1.387 e	1.387 e	1.387 e	1.387 e	1.387 e	1.387 e	1.387 e	1.387 e	1.387 e
Guinea	9.843 o	9.024 o	9.024 o	9.024 o	9.024 o	9.024 o	9.024 o	9.024 o	9.024 o
Kenya	55.143 e	79.858 e	79.930 e	80.035 e	80.035 e	80.035 e	80.189 e	82.838 e	82.838 e
Lesotho	0.395 e	0.139 e	0.062 e						
Liberia	25.250 e	25.250 e	25.250 e	25.250 e	25.250 e	25.250 e	25.250 e	25.250 e	25.250 e
Madagascar	30.901 e	31.574 e	31.925 e	33.680 e	32.510 e	32.510 e	32.510 e	35.786 e	35.786 e
Malawi	5.765 e	6.194 e	6.891 e	6.891 e	8.275 e	8.275 e	8.275 e	8.275 e	8.275 e
Mali	0.017 e	0.017 e	0.017 e	0.017 e	0.017 e	0.017 e	0.017 e	0.017 e	0.017 e
Mauritius	1.408 e	1.408 e	1.408 e	1.408 e	1.408 e	1.408 e	1.408 e	1.408 e	1.408 e
Mozambique	10.208 e	10.208 e	10.208 e	10.208 e	10.208 e	10.208 e	10.208 e	10.208 e	10.208 e
Nigeria	3.128 e	3.128 e	3.128 e	3.128 e	3.128 e	3.128 e	3.128 e	3.128 e	3.128 e
Rwanda	3.619 e	3.619 e	3.691 e	3.867 e	3.867 e	3.867 e	3.867 e	3.867 e	3.867 e
Sierra Leone	0.469 e	9.167 e	9.167 e	9.167 e	9.167 e	9.167 e	9.167 e	9.167 e	9.167 e
South Africa	20.774 e	20.774 e	20.774 e	20.774 e	20.774 e	20.774 e	20.774 e	20.774 e	20.774 e
Tanzania	76.119 e	80.197 e	80.197 e	83.564 e	89.924 e	91.795 e	92.992 e	92.992 e	92.992 e
Uganda	0.012 e	1.813 e	2.591 e	2.401 e	2.401 e	2.401 e	2.401 e	2.970 e	2.970 e
Zambia	64.900 o	42.800 o	74.100 o	75.200 o	89.410 o	76.653 o	41.690 o	53.610 o	80.560 o
Zimbabwe	3.780 e	3.780 e	3.780 e	3.651 e	3.651 e	3.651 e	3.651 e	3.651 e	3.651 e
Asia	1 012.730	1 019.148	5 785.902	5 688.396	5 964.817	5 979.797	6 008.266	5 714.402	6 833.988
Afghanistan	107.598 u	113.497 u	100.396 u	123.688 u	113.920 u	91.771 u	61.793 u	62.932 u	95.351 u
Bhutan	11.027 o	11.220 u	18.054 u	17.800 u	23.834 u	21.022 u	18.887 u	19.640 o	16.900 o
India	247.536 u	239.282 u	246.100 u	269.158 u	294.197 u	283.487 u	287.938 u	288.689 u	255.331 u
Indonesia	51.022 u	50.567 u	4 809.000 u	4 615.000 u	4 870.000 u	4 933.000 u	4 940.000 u	4 658.000 u	5 785.000 o
Lao PDR	10.200 u	12.200 u	12.600 u	9.300 u	8.200 u	8.200 u	8.000 u	7.500 u	8.000 u
Malaysia	1.240 e	1.298 e	1.288 e	1.340 e	1.340 e	1.340 e	1.340 e	1.340 e	1.340 e
Mongolia	1.990 u	1.991 o	1.991 o	1.991 o	1.992 o	1.993 o	1.994 o	1.994 u	1.994 u
Myanmar	1.250 u	1.250 u	1.250 u	1.250 u	1.250 u	1.250 u	1.250 u	1.250 u	1.250 u
Nepal	133.952 u	143.130 u	141.361 u	154.172 u	160.188 u	140.215 u	163.981 u	151.313 u	148.047 u
Pakistan	99.320 e	88.642 e	66.990 e	85.814 e	92.449 e	88.430 e	80.590 e	80.590 e	97.934 e
Philippines	46.601 u	55.077 u	85.878 u	107.889 u	96.211 u	107.749 u	140.958 u	139.778 u	121.556 u
Sri Lanka	7.490 u	7.490 u	7.490 u	7.490 u	7.490 u	7.490 u	7.490 u	7.490 u	7.490 u
Tajikistan	178.875 o	178.875 o	178.875 o	178.875 o	178.875 e	178.876 u	178.876 u	178.876 e	178.876 u
Thailand					1.866 u	1.970 u	2.165 u	2.006 u	1.915 u
Timor Leste	1.625 u	1.625 u	1.625 u	1.625 u					
Viet Nam	113.004 u	113.004 u	113.004 u	113.004 u	113.004 o	113.004 u	113.004 u	113.004 u	113.004 u
C America + Carib	7.833	7.111	7.394	14.336	26.038	23.080	26.847	26.847	26.847
Belize	0.263 e	0.263 e	0.263 e	0.263 e	0.263 e	0.263 e	0.263 e	0.263 e	0.263 e
Cuba				6.804 u	6.804 e	6.804 u	6.804 u	6.804 e	6.804 u
Dominican Rep	5.767 o	6.341 o	6.691 o	6.993 e	7.338 e	4.380 e	8.147 e	8.147 e	8.147 u
El Salvador	0.486 e	0.411 e	0.336 e	0.177 e	0.017 e	0.017 e	0.017 e	0.017 e	0.017 e
Honduras	0.088 e	0.096 e	0.104 e	0.099 e	11.616 e	11.616 e	11.616 e	11.616 u	11.616 u
Nicaragua	1.229 o								
Eurasia	0.000	0.000	0.000	0.000	0.000	0.000			
Russian Fed	0.000 u	0.000 u	0.000 u	0.000 u	0.000 u	0.000 u			
Middle East	2.348	2.348	2.348	2.348	2.348	2.348	2.348	2.348	2.348
Iraq	2.348 u	2.348 u	2.348 o	2.348 o	2.348 u	2.348 u	2.348 u	2.348 u	2.348 u
Oceania	244.159	225.137	253.158	301.811	301.810	301.800	250.201	193.723	193.809
Fiji	0.468 u	0.462 u	0.533 u	0.526 u	0.525 u	0.515 u	0.562 u	0.507 e	0.593 u
Fr Polynesia	0.000 o								
Papua N Guin	242.616 u	223.600 u	251.550 u	300.210 u	300.210 u	300.210 u	248.564 e	192.141 u	192.141 u
Solomon Is	0.870 u	0.870 u	0.870 u	0.870 u	0.870 u	0.870 u	0.870 u	0.870 u	0.870 u
Vanuatu	0.205 u	0.205 u	0.205 u	0.205 u	0.205 e	0.205 u	0.205 u	0.205 e	0.205 u
S America	750.920	636.225	618.338	579.408	569.270	654.456	617.883	641.795	659.544
Argentina	2.415 o	5.385 u	5.385 u	5.385 u	5.385 u	5.385 u	5.385 u	5.385 u	5.385 u
Bolivia	4.230 o	3.670 o	6.570 o	5.890 o	2.880 e	3.930 o	4.050 o	4.640 o	6.230 o
Brazil	0.071 u	0.069 u	0.072 u	0.073 u	0.073 u	0.066 u	0.078 u	0.078 u	0.077 u
Chile	161.000 o	43.955 o	60.039 o	29.969 o	57.520 o	167.582 o	189.000 e	189.000 e	189.000 e
Colombia	0.836 u	7.406 u	13.976 u	19.346 u	24.715 u	17.975 u	11.235 u	11.718 u	12.202 u
Ecuador	17.558 o	16.858 o	16.411 o	21.440 o	20.408 o	19.084 o	10.765 o	9.876 e	7.242 o
Fr Guiana	3.698 u	4.790 u	4.552 u	3.474 u	3.675 u	4.940 u	5.024 u	4.418 u	2.452 u
Guyana	6.258 u	6.258 u	6.258 u	6.312 u	6.312 u	6.312 u	6.312 u	6.312 u	8.192 u
Peru	550.691 e	543.726 e	500.757 e	483.145 e	443.928 e	424.808 e	381.660 e	405.994 u	424.390 u
South Georgia	0.663 o	0.485 o	0.695 o	0.751 u	0.751 u	0.751 u	0.751 u	0.751 u	0.751 u
Suriname		0.123 u	0.123 u	0.123 u	0.123 u	0.123 u	0.123 u	0.123 u	0.123 u
Venezuela	3.500 u	3.500 u	3.500 u	3.500 u	3.500 u	3.500 u	3.500 u	3.500 u	3.500 u

Off-grid Solar photovoltaic

Solaire photovoltaïque hors réseau

Solar fotovoltaica fuera de red

CAP (MW)	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
World	1 850.773	2 357.442	2 989.473	3 284.833	4 090.634	4 742.374	5 612.752	6 568.102	8 784.687	10 333.791
Africa	256.188	319.010	429.860	482.671	584.147	712.406	801.683	911.205	976.180	987.619
Algeria	19.540 u	19.540 u	19.540 u	19.540 u	19.540 u	19.540 u	38.840 u	47.850 u	47.850 e	47.850 u
Angola	0.328 u	0.424 u	0.437 u	1.366 u	1.374 u	1.441 u	1.460 u	1.475 u	1.475 u	1.475 u
Benin	0.795 u	1.036 u	1.185 u	2.406 u	3.447 u	4.616 u	6.982 u	8.858 e	8.858 e	8.858 e
Botswana	1.903 u	2.047 u	2.351 u	2.353 u	2.353 u	2.355 u	2.355 u	2.355 e	2.360 e	2.360 e
Burkina Faso	3.165 u	3.452 u	18.895 u	20.039 u	20.529 u	21.314 u	21.909 u	22.042 u	22.042 e	22.042 e
Burundi	1.116 u	1.466 u	1.477 u	1.517 u	1.657 u	1.115 u	0.960 u	1.505 e	2.085 e	2.085 u
Cabo Verde	0.268 o	0.426 o	0.998 o	1.139 o	1.305 o	1.427 o	1.623 o	1.796 o	1.796 u	1.796 o
Cameroon	0.151 e	11.576 e	11.839 e	12.695 e	13.557 e	26.233 e	26.310 e	26.744 e	26.763 e	26.744 u
Cent Afr Rep	0.209 e	0.274 e	0.299 e	0.296 e	0.339 e	0.337 e	0.334 e	0.440 e	0.523 e	0.523 e
Chad	0.180 e	0.190 e	0.562 e	0.557 e	0.606 e	1.092 e	1.138 e	1.162 e	1.162 e	1.162 e
Comoros	0.805 e	1.146 e	1.146 e	1.165 e	1.152 e	0.362 e	0.034 e	0.070 e	0.070 e	0.070 e
Congo DR	4.610 e	5.670 e	8.333 e	9.578 e	13.088 e	16.073 e	18.870 e	20.066 e	20.066 e	20.066 e
Congo Rep	0.028 e	0.057 e	0.064 e	0.062 e	0.522 e	0.565 e	0.640 e	0.729 e	0.791 e	0.791 e
Cote d Ivoire	0.450 e	1.007 e	2.097 e	4.206 e	6.402 e	7.759 e	9.009 e	9.084 e	9.084 e	9.084 e
Djibouti	0.405 u	0.416 u	0.429 u	0.429 u	0.429 u	0.429 u	0.429 u	0.429 u	0.429 e	0.729 u
Egypt	30.000 o	30.000 o	44.200 o	30.200 o	32.000 e	30.500 e	30.540 o	30.280 o	30.280 o	30.280 o
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	0.006 e	0.006 e
Eritrea	9.014 e	23.354 e	25.864 e	25.919 e	25.906 e	25.125 e	24.785 e	24.785 e	24.785 e	24.785 e
Eswatini		0.003 e	0.003 e	0.003 e	0.038 e	0.038 e	0.038 e	0.038 e	0.038 e	0.038 u
Ethiopia	14.040 o	12.494 o	12.346 o	12.346 o	20.184 o	21.184 o	21.184 o	21.184 o	21.554 u	21.554 u
Gabon	0.066 e	0.081 e	0.086 e	0.098 e	0.090 e	0.490 e	0.510 e	0.504 e	0.493 e	0.493 e
Gambia	0.494 e	0.999 e	1.142 e	1.152 e	1.142 e	1.129 e	1.045 e	1.053 e	1.061 e	1.061 u
Ghana	11.510 e	12.718 e	12.825 e	12.637 e	11.927 e	12.006 e	12.003 e	12.106 e	12.163 e	12.163 e
Guinea	0.227 e	0.426 e	12.900 e	14.014 e	14.630 e	14.961 e	16.059 e	16.758 e	17.079 e	17.079 e
Guinea Bissau	0.701 e	0.945 e	1.826 e	1.822 e	1.761 e	2.052 e	1.804 e	1.995 e	2.747 e	2.747 u
Kenya	25.065 e	27.075 e	30.652 e	37.433 e	42.638 e	57.923 e	62.194 e	64.529 e	66.170 e	66.170 e
Lesotho	0.159 e	0.159 e	0.094 e	0.319 e	0.325 e	0.290 e	0.460 e	0.515 e	0.515 e	0.515 e
Liberia	0.362 e	0.731 e	1.113 e	1.553 e	2.440 e	2.766 e	3.389 e	3.616 e	3.621 e	3.621 u
Libya	4.900 u	5.110 u	5.110 u	5.110 u	5.111 u	6.333 e	6.333 u	6.333 u	6.333 e	6.333 u
Madagascar	1.243 e	1.781 e	1.999 e	2.993 e	4.284 e	4.153 e	4.904 e	7.953 e	9.288 e	9.288 e
Malawi	0.376 e	0.812 e	0.863 e	0.982 e	2.481 e	2.536 e	2.863 e	2.863 e	3.030 e	3.030 e
Mali	5.851 e	7.705 e	8.199 e	9.234 e	9.501 e	40.502 e	41.057 e	41.057 e	40.593 e	40.593 e
Mauritania	19.766 o	19.766 o	21.066 u	21.209 u	21.209 u	21.209 u	21.209 u	55.209 u	89.209 e	101.209 u
Morocco	20.870 o	22.895 o	22.895 o	22.903 o	23.000 o	23.000 u	23.000 u	23.000 u	23.000 e	23.000 e
Mozambique	2.682 e	3.117 e	3.259 e	5.924 e	11.874 e	19.740 e	29.696 e	61.649 e	71.784 e	71.784 e
Namibia	1.368 e	1.409 e	13.602 e	13.893 e	14.382 e	14.400 e	14.414 e	8.481 e	8.541 e	8.541 e
Niger	6.626 e	6.847 e	6.945 e	7.100 e	7.691 e	7.555 e	7.954 e	10.898 e	10.905 e	10.905 e
Nigeria	13.139 e	17.991 e	21.845 e	33.228 e	47.944 e	61.551 e	79.849 e	99.133 e	108.631 e	108.631 e
Reunion	0.001 e	0.001 e	0.001 e	1.341 e	1.501 e	1.501 e	1.501 e	1.501 e	1.501 e	1.501 e
Rwanda	0.299 e	0.488 e	0.757 e	1.382 e	1.879 e	2.287 e	2.943 e	3.312 e	3.127 e	3.127 u
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	0.013 e	0.013 e
Senegal	0.747 e	2.483 e	5.182 e	6.326 e	6.843 e	7.952 e	8.399 e	8.611 e	7.834 e	7.834 e
Seychelles	0.068 e	0.068 e	0.922 e	0.922 e	0.922 e	4.122 e	4.122 e	4.122 e	4.122 e	4.122 e
Sierra Leone	0.593 e	0.960 e	1.145 e	2.995 e	3.828 e	11.104 e	11.453 e	11.702 e	11.301 e	11.301 e
Somalia	1.105 u	1.582 u	2.268 u	2.439 u	10.909 u	18.909 u	42.409 u	45.909 u	45.909 e	45.909 u
South Africa	2.486 e	5.248 e	5.106 e	5.532 e	5.296 e	5.190 e	5.117 e	5.782 e	6.424 e	6.424 e
South Sudan	1.237 u	1.953 u	2.228 u	2.482 u	2.732 u	2.533 u	2.983 u	3.739 u	3.739 u	3.739 u
Sudan	26.294 u	36.169 u	59.909 u	80.630 u	117.271 u	136.001 u	136.001 u	136.001 u	136.001 u	136.001 u
Tanzania	8.597 e	8.842 e	9.850 e	5.815 e	5.972 e	5.823 e	5.376 e	5.865 e	12.075 e	12.075 e
Togo	0.082 e	0.572 e	3.782 e	6.638 e	9.422 e	12.800 e	14.740 e	15.549 e	15.713 e	15.713 e
Tunisia	2.078 u	2.091 u	2.091 u	7.123 u	8.682 u	8.714 u	8.920 u	8.920 u	8.920 u	8.920 u
Uganda	6.502 e	8.524 e	11.186 e	13.593 e	13.089 e	13.091 e	13.045 e	12.481 e	12.481 e	11.638 e
Zambia	1.147 e	1.504 e	3.009 e	4.362 e	5.060 e	5.297 e	6.244 e	6.875 e	7.118 e	7.118 e
Zimbabwe	2.227 e	2.681 e	3.236 e	2.986 e	3.218 e	2.588 e	2.229 e	2.270 e	2.727 e	2.727 e
Asia	1 311.942	1 668.711	1 947.497	2 046.808	2 435.603	2 569.066	2 993.040	3 134.089	4 624.111	5 637.038
Afghanistan	21.160 u	21.601 u	21.376 u	20.891 u	20.313 u	20.486 u	22.256 u	22.256 u	22.256 u	22.256 u
Bangladesh	151.036 u	194.667 u	190.818 u	200.992 u	206.326 u	202.495 u	166.398 u	151.688 u	137.609 u	137.609 u
Bhutan	0.120 u	0.120 u	0.120 u	0.120 u	0.120 u	0.200 u	0.200 u	0.328 u	0.328 u	0.328 u
Brunei Darism	0.012 u	0.013 u	0.021 u	0.023 u	0.024 u	0.044 u	0.044 u	0.050 u	0.050 u	0.050 u
Cambodia	1.982 u	2.140 u	1.882 u	3.539 u	3.592 u	4.126 u	4.693 u	5.420 u	5.753 u	5.753 u
China	367.800 o	376.800 o	385.800 o	394.800 u	403.800 o	412.800 u	421.800 u	430.800 u	439.800 u	448.800 u
India	640.976 u	875.977 u	1 130.251 u	1 177.163 u	1 510.674 u	1 633.081 u	1 966.434 u	1 946.781 u	3 202.000 u	4 174.000 u
Indonesia	41.784 u	42.927 u	43.856 u	52.772 u	58.768 u	65.648 u	115.827 u	306.797 u	524.827 u	524.827 u
Lao PDR	1.964 e	1.964 e	1.518 e	1.099 e	0.328 e	0.342 e	0.342 e	0.342 e	0.342 u	0.342 u
Malaysia	2.460 e	2.569 e	7.629 e	7.610 e	7.794 e	7.831 e	7.879 e	8.036 e	8.200 e	8.200 e
Maldives	7.488 u	10.791 u	16.478 u	29.000 o	39.000 o	40.000 o	52.000 o	55.000 o	68.500 o	74.714 u
Mongolia	13.163 e	13.163 e	13.163 e	13.163 e	13.168 e	13.168 e	13.198 e	13.198 e	13.198 e	13.198 e
Myanmar	32.008 o	43.781 o	47.542 o	48.482 o	44.496 o	40.447 u	88.100 u	88.100 u	93.100 u	117.100 u
Nepal	13.004 u	53.137 u	54.027 u	52.693 u	52.896 u	53.274 u	56.354 u	53.507 u	56.069 u	57.469 u
Pakistan	0.282 e	11.567 e	12.328 e	13.640 e	13.857 e	13.925 e	13.930 e	13.787 e	13.643 e	13.643 e
Philippines	0.820 u	0.948 u	3.949 u	14.253 u	14.847 u	15.708 u	17.591 u	18.523 u	19.230 u	19.230 u
Sri Lanka	7.763 u	7.745 u	7.662 u	7.662 u	7.662 u	7.662 u	7.662 u	7.662 u	7.662 u	7.662 u
Thailand	0.464 e	0.626 e	0.821 e	0.868 e	30.130 u	30.026 u	30.490 u	3.970 u	3.700 u	3.700 u
Timor Leste	1.028 u	0.722 u	0.503 u	0.285 u	0.055 u	0.050 u	0.089 u	0.091 u	0.091 u	0.404 u
Uzbekistan	2.200 o	3.025 o	3.325 o	3.325 o	3.325 o	3.325 o	3.325 o	3.325 o	3.325 o	3.325 o
Viet Nam	4.428 u	4.428 u	4.428 u	4.428 u	4.428 u	4.428 u	4.428 u	4.428 u	4.428 u	4.428 u

Off-grid Solar photovoltaic

Solaire photovoltaïque hors réseau

Solar fotovoltaica fuera de red

CAP (MW)	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
C America + Carib	7.048	8.861	10.937	27.295	35.480	41.347	47.248	56.888	56.908	59.778
Antigua Barb	0.010 e	0.414 e	0.414 e	0.414 e	0.414 e	0.414 e	0.414 u	0.414 u	0.414 u	0.414 e
Aruba	0.011 u	0.011 u	0.011 u	0.011 u	0.011 u	0.011 u	0.011 u	0.011 u	0.011 u	0.011 u
Bahamas	1.583 u	1.471 u	1.440 u	1.740 u	1.740 u	5.740 u	5.740 u	5.740 u	5.740 u	5.740 u
Barbados	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
Belize	0.221 e	0.258 e	0.256 e	0.906 e	0.972 e	0.972 e	1.012 e	1.059 e	1.059 e	1.059 e
BES Islands								0.130 u	0.130 u	0.130 u
Br Virgin Is	0.925 o	0.926 o	0.935 o	0.990 o	1.195 o	1.184 o	1.199 o	2.199 o	2.199 u	2.199 u
Costa Rica	0.573 e	0.592 e	0.387 e	0.401 e	0.607 e	0.484 e	0.488 e	0.450 e	0.450 e	0.450 e
Cuba	0.362 u	0.847 u	0.860 u	8.212 u	8.203 u	8.190 u	7.706 u	7.693 u	7.693 e	7.693 o
Curacao	0.004 u	0.004 u	0.004 u	0.004 u	0.004 u	0.004 u	0.004 u	0.004 u	0.004 u	0.004 o
Dominican Rep	1.510 e	1.550 e	3.600 e	3.800 e	4.500 e	6.500 e	11.769 e	19.087 e	19.087 e	19.097 o
El Salvador	0.073 e	0.073 e	0.098 e	4.084 e	4.086 e	4.090 e	4.132 e	4.136 e	4.136 e	4.136 e
Guatemala	0.194 e	0.449 e	0.472 e	0.607 e	0.644 e	0.640 e	0.545 e	0.633 e	0.655 e	0.655 e
Haiti	1.435 u	1.479 u	1.654 u	1.489 u	1.471 u	1.486 u	1.486 u	1.486 u	1.486 u	4.346 o
Honduras	0.130 e	0.709 e	0.721 e	2.131 e	9.155 e	9.155 e	9.180 e	9.180 e	9.180 e	9.180 u
Jamaica	0.013 e	0.013 e	0.013 e	0.013 e	0.013 u	0.013 u	0.013 u	0.013 u	0.013 u	0.013 u
Nicaragua				2.400 o	2.400 o	2.400 u	3.495 u	4.599 u	4.599 e	4.599 u
Panama				0.020 u	0.020 u	0.020 e	0.020 u	0.020 e	0.020 e	0.020 u
Puerto Rico		0.062 u	0.070 u	0.070 u	0.042 u	0.042 u	0.042 u	0.042 u	0.042 u	0.042 e
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 u	0.001 u	0.001 e
Trinidad Tobago	0.001 u	0.001 u	0.001 u	0.001 u	0.001 u	0.001 u	0.001 u	0.001 u	0.001 u	0.001 e
Eurasia	0.250	0.250	0.262	0.656	0.656	0.656	0.656	0.656	0.656	0.656
Georgia	0.250 u	0.250 u	0.262 u	0.656 u	0.656 u	0.656 u	0.656 u	0.656 u	0.656 u	0.656 u
Europe	67.956	120.303	212.415	321.285	612.549	980.889	1 055.740	1 055.740	1 085.740	1 085.740
Austria	6.487 o	6.963 o	7.197 o	7.697 o	8.197 o	8.697 o	8.697 e	8.697 o	8.697 e	8.697 u
France			33.421 o	69.485 o	243.771 e	373.410 e	373.410 e	373.410 u	373.410 e	373.410 u
Iceland	3.527 u	4.333 u	5.275 u	7.001 u	7.001 u	7.001 u	7.001 e	7.001 u	7.001 e	7.001 u
Ireland	5.927 o	17.135 o	31.972 o	57.478 o	89.892 o	135.272 o	135.272 e	135.272 o	165.272 e	165.272 u
Lithuania		3.669 o	10.000 o	30.000 o	84.000 o	171.000 o	171.000 e	171.000 u	171.000 e	171.000 u
Norway			15.292 o	17.292 o	18.292 e	18.792 e	18.792 e	18.792 u	18.792 e	18.792 u
Portugal	19.774 o	39.815 o	49.585 o	68.702 o	90.222 o	171.210 o	171.210 e	171.210 u	171.210 e	171.210 u
Serbia	6.241 u	8.388 u	9.766 u	12.448 u	19.008 o	39.710 o	114.561 o	114.561 o	114.561 e	114.561 u
Spain	26.000 o	27.000 o	32.907 o	35.182 o	35.166 o	36.797 o	36.797 e	36.797 e	36.797 e	36.797 u
Sweden		13.000 o	17.000 o	16.000 o	17.000 o	19.000 o	19.000 e	19.000 u	19.000 e	19.000 u
European Union	58.188	107.582	182.082	284.544	568.248	915.386	915.386	915.386	945.386	945.386
Middle East	123.110	145.914	299.973	304.187	310.448	311.448	569.267	1 251.612	1 819.870	2 379.870
Iran IR	0.378 o	0.378 o	0.378 u	0.378 u	0.378 u	0.378 u	0.378 u	0.378 u	0.378 u	0.378 u
Iraq	36.500 u	36.500 u	36.500 u	36.500 u	36.500 u	36.500 u	39.000 u	39.000 u	39.000 u	39.000 u
Jordan	0.588 u	0.588 o	0.623 o	0.670 o	2.375 e	3.325 u	3.325 u	3.325 u	3.325 u	3.325 u
Lebanon	0.984 u	1.298 u	4.880 e	4.880 e	4.880 u	4.890 o	4.890 u	5.181 u	5.181 u	5.181 u
Oman	0.002 u	0.012 u	0.012 u	0.012 u	0.012 u	0.012 u	0.012 u	0.012 u	0.012 u	0.012 u
Palestine	0.816 u	0.816 u	0.832 u	2.915 u	3.035 u	3.035 u	3.035 u	3.035 e	3.035 e	3.035 u
Syrian AR							249.000 o	931.000 o	1 500.000 o	2 060.000 o
United Arab Em	3.208 u	3.238 u	3.407 o	4.672 o	5.597 u	5.597 u	5.897 u	6.197 u	6.197 e	6.197 e
Yemen	80.634 u	103.084 u	253.341 u	254.160 u	257.671 u	257.711 u	263.730 u	263.484 u	262.742 u	262.742 u
N America			0.944	2.633	2.835	9.506	9.193	9.193	9.298	9.423
Greenland			0.139 u	0.139 u	0.341 e	0.590 e	0.620 u	0.620 u	0.725 e	0.850 e
Mexico			0.805 u	2.494 u	2.494 u	8.916 u	8.573 u	8.573 u	8.573 e	8.573 u
Oceania	14.370	16.610	19.232	21.163	22.095	24.025	25.569	29.025	29.433	29.807
Amer Samoa	1.504 e	1.854 e	1.854 e	1.504 u	1.504 o	1.504 o	1.504 o	1.504 u	1.504 u	1.504 o
Cook Is	0.047 u	0.047 u	1.869 u	2.606 u	2.606 u	2.606 u	2.606 u	2.606 u	2.606 u	2.606 u
Fiji	4.825 u	4.995 u	5.408 u	5.499 u	5.601 u	5.890 u	6.181 u	7.165 u	7.165 u	7.439 o
Fr Polynesia	3.000 o	3.300 o	3.200 o	3.300 u	3.300 u	3.300 u	3.300 u	3.300 u	3.300 u	3.300 o
Kiribati	0.017 u	0.017 u	0.017 u	0.017 u	0.017 u	0.017 u	0.000 u	2.277 u	2.277 u	2.277 e
Marshall Is	0.650 u	0.710 u	0.726 u	0.726 u	0.726 u	0.726 u	0.726 u	0.726 u	0.726 u	0.726 u
Micronesia	0.137 u	0.137 u	0.137 u	0.137 u	0.137 u	0.137 u	0.137 u	0.137 u	0.137 u	0.137 u
Nauru	0.008 u	0.009 e	0.009 e	0.167 u	0.158 u	0.158 u	0.158 u	0.158 u	0.158 u	0.158 e
New Caledon							0.185 o	0.185 o	0.185 o	0.185 o
Palau	0.170 o	0.170 o	0.170 u	0.235 u	0.538 e	0.538 u	0.538 u	0.538 u	0.538 u	0.538 u
Papua N Guin	1.037 u	1.090 u	1.033 u	1.602 u	2.102 u	3.761 u	3.437 u	3.437 u	3.437 u	3.537 u
Samoa	0.000 u	0.025 u	0.025 u	0.183 u	0.158 u	0.158 u	0.000 u	0.000 u	0.000 u	0.000 u
Solomon Is	1.107 u	1.482 u	1.482 u	1.369 u	1.369 u	1.369 u	3.079 u	3.079 u	3.079 u	3.079 o
Tonga	0.251 u	0.251 u	0.437 u	0.437 u	0.437 u	0.437 u	0.437 u	0.437 u	0.621 u	0.621 o
Tuvalu	1.316 o	1.321 o	1.332 o	1.332 o	1.332 u	1.332 u	1.332 u	1.332 u	1.556 u	1.556 e
Vanuatu	0.301 u	1.202 u	1.533 u	2.049 u	2.110 u	2.092 u	2.134 u	2.144 u	2.144 u	2.144 u

Off-grid Solar photovoltaic

Solaire photovoltaïque hors réseau

Solar fotovoltaica fuera de red

CAP (MW)	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
S America	69.910	77.783	68.353	78.135	86.821	93.031	110.356	119.694	182.489	143.859
Argentina	5.538 e	5.390 e	5.476 e	5.943 e	5.767 e	7.582 e	8.646 e	8.374 e	8.374 u	8.374 u
Bolivia	5.627 e	5.699 e	5.497 o	6.003 o	6.252 e	6.194 e	6.476 e	6.660 o	6.660 o	6.660 u
Brazil	3.921 e	3.923 e	3.951 e	3.971 e	3.999 e	3.999 e	4.011 e	4.011 e	4.011 u	4.011 u
Chile	0.105 u	0.233 u	0.396 u	0.433 u	0.520 u	0.653 u	0.648 u	0.667 u	0.667 u	0.667 u
Colombia	1.520 o	1.520 o	3.580 o	4.636 e	11.826 e	14.166 o	16.506 o	18.846 o	21.186 o	23.526 o
Ecuador	2.020 o	2.020 o	3.170 o	3.170 o	3.170 o	3.190 o	4.190 o	4.880 o	59.450 o	11.640 o
Falklands Malv	0.070 o	0.070 o	0.070 o	0.070 u	0.070 u	0.070 u	0.070 u	0.070 u	0.070 u	0.070 u
Fr Guiana	0.161 o	0.161 o	0.161 o	0.161 u	0.161 u	0.161 u	0.161 u	0.161 u	0.161 u	0.161 u
Guyana	0.717 o	0.727 o	0.624 o	0.592 o	0.804 u	0.626 u	3.074 u	8.521 o	11.571 o	14.121 o
Paraguay	0.057 o	0.057 o	0.057 o	0.057 o	0.150 o	0.150 o	1.166 o	1.166 u	1.166 u	2.011 u
Peru	46.147 u	53.379 u	39.675 o	45.746 o	45.746 u	45.746 e	45.746 u	45.746 u	45.746 o	45.746 u
Suriname	0.020 u	0.020 u	0.572 u	0.585 u	1.235 u	2.235 u	4.535 u	4.535 u	6.220 u	9.485 u
Uruguay	1.137 o	1.714 u	2.254 o	3.898 o	4.251 o	5.389 o	12.257 o	13.187 o	14.337 o	14.517 o
Venezuela	2.870 u	2.870 u	2.870 u	2.870 u	2.870 u	2.870 u	2.870 u	2.870 u	2.870 u	2.870 u

Off-grid Solar photovoltaic

Solaire photovoltaïque hors réseau

Solar fotovoltaica fuera de red

PROD (GWh)	2016	2017	2018	2019	2020	2021	2022	2023	2024
World	2 551.645	3 216.522	4 034.959	4 229.980	4 857.005	5 333.557	6 390.934	6 975.231	9 285.084
Africa	356.516	441.946	578.260	638.389	739.364	916.668	1 042.865	1 178.533	1 227.185
Algeria	35.000 u	35.000 u	35.000 u	35.000 u	35.000 u	35.000 u	69.000 u	85.000 u	85.000 u
Angola	0.466 e	0.602 e	0.620 e	1.939 e	1.950 e	2.047 e	2.073 e	2.116 e	2.116 e
Benin	1.010 e	1.316 e	1.505 e	3.056 e	4.378 e	6.434 e	9.445 e	12.487 e	12.487 e
Botswana	3.254 e	3.500 e	4.020 e	4.023 e	4.023 e	4.028 e	4.028 e	4.028 e	4.036 e
Burkina Faso	5.100 e	5.600 e	30.600 e	32.400 e	33.200 e	34.500 e	35.500 e	35.400 e	35.400 e
Burundi	1.735 e	2.276 e	2.294 e	2.356 e	2.573 e	1.731 e	1.492 e	2.337 e	2.870 o
Cabo Verde	0.437 e	0.694 e	1.627 e	1.856 e	2.127 e	2.326 e	2.646 e	2.927 e	2.927 e
Cameroon	0.207 e	15.905 e	16.267 e	17.443 e	18.628 e	36.045 e	36.150 e	36.747 e	36.747 e
Cent Afr Rep	0.296 e	0.389 e	0.425 e	0.421 e	0.481 e	0.478 e	0.474 e	0.625 e	0.743 e
Chad	0.284 e	0.300 e	0.888 e	0.881 e	0.957 e	1.726 e	1.798 e	1.836 e	1.836 e
Comoros	1.151 e	1.638 e	1.638 e	1.666 e	1.648 e	0.517 e	0.049 e	0.100 e	0.100 e
Congo DR	5.901 e	7.258 e	10.666 e	12.260 e	16.753 e	20.573 e	24.154 e	25.685 e	25.685 e
Congo Rep	0.036 e	0.073 e	0.082 e	0.080 e	0.668 e	0.723 e	0.819 e	0.932 e	1.012 e
Cote d Ivoire	0.600 e	1.300 e	2.700 e	5.500 e	8.300 e	10.100 e	11.700 e	11.800 e	11.800 e
Djibouti	0.700 u	0.700 u	0.700 u	0.700 u	0.700 u	0.700 u	0.700 u	0.700 e	0.700 u
Egypt	25.938 e	21.950 o	25.000 e	24.000 e	22.510 e	26.420 o	26.060 o	34.920 o	34.920 e
Eq Guinea	0.197 e	0.436 e	0.436 e	0.413 e	0.400 e	0.233 e	0.007 e	0.007 e	0.007 e
Eritrea	17.244 e	44.677 e	49.478 e	49.583 e	49.559 e	48.063 e	47.414 e	47.414 e	47.414 e
Eswatini		0.004 e	0.004 e	0.004 e	0.055 e	0.055 e	0.055 e	0.055 e	0.055 e
Ethiopia	20.835 u	22.383 u	19.754 u	19.754 u	32.295 u	33.895 u	33.895 u	33.895 u	34.847 u
Gabon	0.090 e	0.110 e	0.120 e	0.130 e	0.120 e	0.670 e	0.700 e	0.690 e	0.680 e
Gambia	1.274 e	1.770 e	1.831 e	1.836 e	1.821 e	1.738 e	1.609 e	1.622 e	1.634 e
Ghana	15.999 e	17.678 e	17.826 e	17.566 e	16.578 e	16.689 e	16.684 e	16.828 e	16.906 e
Guinea	0.350 e	0.656 e	19.878 e	21.596 e	22.545 e	23.055 e	24.747 e	25.823 e	26.318 e
Guinea Bissau	1.132 e	1.526 e	2.949 e	2.943 e	2.844 e	3.314 e	2.913 e	3.222 e	3.468 e
Kenya	38.350 e	41.425 e	46.898 e	57.273 e	65.236 e	88.622 e	95.157 e	98.729 e	101.239 e
Lesotho	0.275 e	0.275 e	0.162 e	0.551 e	0.563 e	0.501 e	0.763 e	0.986 e	0.986 e
Liberia	0.508 e	1.026 e	1.562 e	2.178 e	3.424 e	2.877 e	3.741 e	4.022 e	4.022 e
Libya	7.791 u	7.791 u	7.791 u	7.791 u	7.791 u	7.791 u	7.791 u	7.791 u	7.791 u
Madagascar	2.156 e	3.090 e	3.467 e	5.193 e	7.433 e	7.206 e	8.508 e	13.799 e	16.114 e
Malawi	0.602 e	1.299 e	1.381 e	1.571 e	3.970 e	4.058 e	4.580 e	4.580 e	4.848 e
Mali	9.011 e	11.865 e	12.627 e	14.220 e	14.631 e	62.373 e	63.228 e	63.228 e	62.513 e
Mauritania	33.803 u	32.242 u	49.496 u	43.551 u	45.491 u	58.632 u	45.908 u	54.847 u	57.847 u
Morocco	25.044 u	29.347 u	29.348 u	27.484 o	27.600 o	27.600 o	27.600 u	27.600 u	27.600 u
Mozambique	4.171 e	4.846 e	5.068 e	9.211 e	18.465 e	30.696 e	46.177 e	95.864 e	111.624 e
Namibia	2.544 e	2.621 e	25.299 e	25.841 e	26.751 e	26.784 e	26.811 e	15.776 e	15.886 e
Niger	10.800 e	11.200 e	11.300 e	11.600 e	12.600 e	12.300 e	13.000 e	17.800 e	17.800 e
Nigeria	19.407 e	26.572 e	32.265 e	49.077 e	70.813 e	90.911 e	117.937 e	146.419 e	160.448 e
Reunion	0.001 e	0.001 e	0.001 e	2.038 e	2.281 e	2.281 e	2.281 e	2.281 e	2.281 e
Rwanda	0.425 e	0.692 e	1.075 e	1.963 e	2.669 e	3.248 e	4.179 e	4.708 e	4.441 e
Sao Tome Prn	0.160 e	0.362 e	0.362 e	0.363 e	0.352 e	0.211 e	0.013 e	0.013 e	0.013 e
Senegal	1.276 e	4.239 e	8.846 e	10.798 e	11.681 e	13.574 e	14.337 e	14.700 e	13.372 e
Seychelles	0.095 e	0.095 e	1.291 e	1.291 e	1.291 e	5.771 e	5.771 e	5.771 e	5.771 e
Sierra Leone	0.830 e	1.343 e	1.604 e	4.193 e	5.359 e	15.546 e	16.034 e	16.382 e	15.821 e
Somalia	1.700 u	2.500 u	3.500 u	3.800 u	17.000 u	29.500 u	66.200 u	71.600 u	79.000 u
South Africa	4.151 e	8.764 e	8.528 e	9.239 e	8.844 e	8.667 e	8.546 e	9.657 e	10.728 e
South Sudan	1.855 u	2.929 u	3.342 u	3.723 u	4.098 u	3.800 u	4.474 u	5.609 u	5.609 u
Sudan	18.496 u	20.455 u	20.455 u	21.087 u	27.109 u	27.109 u	27.109 u	27.109 u	27.109 u
Tanzania	14.786 e	15.209 e	16.942 e	10.001 e	10.272 e	10.015 e	9.247 e	10.088 e	20.769 e
Togo	0.122 e	0.848 e	8.860 e	12.110 e	14.810 e	17.450 e	20.290 e	22.545 e	14.790 e
Tunisia	4.000 u	4.000 u	4.000 u	13.000 u	16.000 u	16.000 u	16.000 u	16.000 u	16.000 u
Uganda	9.233 e	12.104 e	15.885 e	19.302 e	18.586 e	18.589 e	18.525 e	17.723 e	16.526 e
Zambia	1.993 e	2.613 e	5.226 e	7.576 e	8.789 e	9.201 e	10.845 e	11.942 e	12.364 e
Zimbabwe	3.697 e	4.450 e	5.371 e	4.958 e	5.342 e	4.296 e	3.701 e	3.768 e	4.527 e
Asia	1 798.752	2 289.469	2 648.240	2 749.794	3 215.023	3 412.235	4 114.267	4 391.322	6 475.232
Afghanistan	34.928 u	36.785 u	36.975 u	36.349 u	35.414 u	35.058 u	36.769 u	38.748 u	39.170 u
Bangladesh	206.919 u	266.693 u	261.420 u	275.359 u	282.667 u	277.418 u	227.965 u	207.812 u	188.524 u
Bhutan	0.168 u	0.168 u	0.168 u	0.168 u	0.168 u	0.280 u	0.280 u	0.459 u	0.459 u
Brunei Darsm	0.016 u	0.017 u	0.027 u	0.030 u	0.031 u	0.057 u	0.057 u	0.066 u	0.066 u
Cambodia	2.873 u	3.103 u	2.729 u	5.132 u	5.208 u	5.983 u	6.805 u	7.859 u	8.342 u
China	491.013 o	503.028 o	515.043 u	527.058 u	539.073 u	551.088 u	563.103 u	575.118 u	587.133 u
India	865.318 u	1182.568 u	1 525.838 u	1 589.171 u	2 039.410 u	2 204.660 u	2 654.686 u	2 628.154 u	4 322.700 u
Indonesia	83.986 u	86.283 u	71.000 u	64.000 u	45.000 u	73.000 u	226.000 u	535.000 u	926.000 o
Kazakhstan	0.000 e	0.000 e	0.000 e	0.000 e	0.000 e	0.000 e	0.000 e	0.000 e	0.000 e
Lao PDR	2.691 u	2.691 u	2.079 u	1.505 u	0.449 u	0.468 u	0.468 u	0.468 u	0.468 u
Malaysia	3.026 e	3.160 e	9.384 e	9.360 e	9.587 e	9.632 e	9.691 e	9.884 e	10.086 e
Maldives	11.232 e	16.186 e	24.717 e	43.500 u	58.500 u	60.000 u	78.000 u	82.500 u	102.750 u
Mongolia	7.794 u	7.794 o	7.794 o	7.794 o	7.794 o	7.794 o	7.795 o	7.795 u	7.795 u
Myanmar	47.050 u	64.350 u	69.900 u	71.250 u	65.400 u	59.450 u	129.500 u	129.500 u	129.500 u
Nepal	18.595 u	75.987 u	77.258 u	75.351 u	75.641 u	76.182 u	80.586 u	80.586 u	80.179 u
Pakistan	0.406 e	16.657 e	17.753 e	19.642 e	19.953 e	20.052 e	20.059 e	19.853 e	19.647 e
Philippines	0.992 u	1.106 u	3.124 u	8.069 u	10.493 u	11.091 u	23.363 u	25.480 u	32.362 u
Sri Lanka	11.333 u	11.308 u	11.186 u	11.186 u	11.186 u	11.186 u	11.186 u	11.186 u	11.186 u
Thailand					4.536 u	4.331 u	33.388 u	26.284 u	4.295 u
Timor Leste	1.593 u	1.119 u	0.780 u	0.442 u	0.085 u	0.077 u	0.138 u	0.142 u	0.142 u
Uzbekistan	4.391 o	6.038 o	6.637 o						
Viet Nam	4.428 u	4.428 u	4.428 u	4.428 u	4.428 u	4.428 u	4.428 u	4.428 u	4.428 u

Off-grid Solar photovoltaic

Solaire photovoltaïque hors réseau

Solar fotovoltaica fuera de red

PROD (GWh)	2016	2017	2018	2019	2020	2021	2022	2023	2024
C America + Carib	17.259	30.904	41.225	27.054	48.621	57.970	68.870	80.498	81.213
Antigua Barb	0.016 u	0.642 u	0.642 u	0.642 u	0.642 u	0.642 u	0.652 u	0.652 e	0.652 u
Bahamas	2.463 u	2.373 u	2.262 u	2.471 u	2.704 u	5.812 u	8.920 u	8.920 u	8.920 u
Belize	0.308 e	0.334 e	0.361 e	0.817 e	1.316 e	1.360 e	1.388 e	1.448 e	1.481 e
Br Virgin Is	1.482 u	1.552 u	1.566 u	1.635 u	1.719 u	1.984 u	1.986 u	1.986 e	1.986 e
Costa Rica	2.057 o	2.213 o	2.251 o	2.270 o	2.355 o	2.542 o	2.542 o	2.542 o	2.542 e
Cuba		0.973 u	1.373 u	7.299 u	13.207 u	13.189 u	12.789 u	12.389 u	12.378 u
Curacao	0.007 u	0.007 u	0.007 u	0.007 u	0.007 u	0.007 u	0.007 u	0.007 e	0.007 u
Dominican Rep	8.382 o	18.827 o	28.251 o	0.465 e	1.549 e	4.647 e	12.809 e	24.144 e	24.144 u
El Salvador	0.104 e	0.121 e	0.142 e	3.465 e	6.769 e	6.774 e	6.812 e	6.850 e	6.853 e
Guatemala	0.238 e	0.447 e	0.640 e	0.750 e	0.869 e	0.892 e	0.823 e	0.818 e	0.818 e
Haiti	2.099 u	2.363 u	2.541 u	2.549 u	2.400 u	2.398 u	2.410 u	2.410 e	2.410 u
Honduras	0.079 e	0.983 e	1.069 e	3.310 e	14.150 e	14.150 e	14.189 e	14.189 u	14.189 u
Jamaica	0.022 u	0.022 u	0.022 u	0.022 u	0.022 u	0.022 u	0.022 u	0.022 e	0.022 u
Nicaragua			1.220 e	0.800 e	3.460 e	3.430 e	4.030 e	4.720 o	4.720 o
Panama			0.028 o	0.028 e	0.028 e	0.028 e	0.028 e	0.028 e	0.028 e
Puerto Rico		0.045 e	0.096 u	0.102 u	0.082 u	0.061 u	0.061 u	0.061 u	0.061 u
St Kitts Nevis	0.002 u	0.002 u	0.002 u	0.002 u	0.002 u	0.002 u	0.002 u	0.002 u	0.002 u
Eurasia	0.318	0.318	0.332	0.833	0.833	0.833	0.833	0.833	0.833
Georgia	0.318 u	0.318 u	0.332 u	0.833 u	0.833 o	0.833 u	0.833 u	0.833 e	0.833 u
Europe	38.274	55.049	86.546	104.180	127.246	201.817	384.013	523.429	689.247
France		2.714 o	5.425 o	15.355 o	29.737 o	76.282 o	177.799 o	311.380 o	469.772 o
Iceland	2.730 u	3.354 u	4.083 u	5.419 u	5.419 o	5.419 u	5.419 u	5.419 o	5.419 e
Norway			13.610 u	15.390 u	15.548 o	15.973 o	16.000 o	16.500 o	16.700 o
Serbia	7.177 u	9.647 u	11.231 u	14.316 u	21.860 u	45.667 o	131.746 o	131.746 o	131.746 u
Spain	28.367 o	29.334 o	36.197 o	38.700 o	38.682 o	40.476 o	41.049 o	42.384 o	47.593 o
Sweden		10.000 o	16.000 o	15.000 o	16.000 o	18.000 o	12.000 o	16.000 o	18.017 o
European Union	28.367	42.048	57.622	69.055	84.419	134.758	230.848	369.764	535.382
Middle East	222.779	266.286	561.629	569.474	577.493	577.570	590.229	589.753	588.316
Iran IR	0.635 o	0.635 u	0.635 o	0.635 o	0.635 u	0.635 u	0.635 u	0.635 u	0.635 u
Iraq	57.305 u	57.305 u	61.425 o	61.425 o	61.425 u	61.425 u	61.425 u	61.425 u	61.425 u
Jordan	0.973 u	0.973 u	0.973 u	0.973 u	0.973 u	0.973 u	0.973 u	0.973 u	0.973 u
Lebanon	0.801 u	0.801 u	0.801 u	0.801 u	0.801 u	0.801 u	0.801 u	0.801 u	0.801 u
Oman	0.003 u	0.024 u	0.024 u	0.024 u	0.024 u	0.024 u	0.024 u	0.024 u	0.024 u
Palestine	1.486 u	1.486 u	1.514 u	5.307 u	5.526 u	5.526 u	5.526 u	5.526 u	5.526 u
United Arab Em	5.389 u	5.389 u	5.535 o	8.000 u	9.000 u	9.000 u	10.000 u	10.000 u	10.000 u
Yemen	156.187 u	199.673 u	490.722 u	492.309 u	499.109 u	499.186 u	510.845 u	510.369 u	508.932 u
N America			1.532	4.492	4.669	16.137	15.563	15.579	15.684
Greenland			0.122 u	0.122 u	0.299 u	0.517 u	0.543 e	0.558 e	0.663 u
Mexico			1.410 u	4.370 u	4.370 u	15.620 u	15.020 e	15.021 u	15.021 u
Oceania	18.519	22.955	28.151	30.802	30.759	29.890	32.107	36.949	36.793
Amer Samoa	3.064 u	3.910 u	3.680 u	2.790 u	2.790 u	2.790 u	2.264 u	2.264 e	2.264 u
Cook Is	0.063 u	1.150 u	5.553 e	5.332 e	4.606 u	2.838 e	2.817 e	2.598 e	2.264 u
Fiji	6.369 e	6.593 e	7.139 e	7.259 e	7.393 e	7.775 e	8.159 e	9.457 e	9.457 u
Fr Polynesia	1.700 o	1.500 o	1.400 o	1.200 o	1.000 o	0.900 o	0.800 o	0.700 o	0.900 o
Kiribati	0.028 u	0.028 u	0.028 u	0.028 u	0.028 u	0.028 u	0.000 u	3.848 u	3.848 u
Marshall Is	0.878 u	0.958 u	0.980 u	0.980 u	0.980 u	0.980 u	0.980 u	0.980 e	0.980 u
Micronesia	0.197 u	0.197 u	0.197 u	0.197 u	0.197 u	0.197 u	0.197 u	0.197 u	0.197 u
Nauru	0.010 u	0.012 o	0.012 u	0.216 u	0.204 u	0.204 u	0.204 u	0.204 u	0.204 u
New Caledon	0.585 o	0.673 o	0.710 o	0.767 u	0.832 e	0.920 e	0.920 e	0.920 e	0.920 o
Palau	0.228 u	0.228 u	0.228 u	0.315 u	0.720 u	0.720 u	0.720 u	0.720 u	0.720 u
Papua N Guin	1.782 u	1.733 u	1.388 u	3.909 u	4.075 u	4.852 u	4.984 e	4.984 u	4.984 u
Samoa	0.011 u	0.027 e	0.025 e	0.257 e	0.221 e	0.009 e	0.009 u	0.004 e	0.004 u
Solomon Is	1.483 u	1.986 u	1.986 u	1.834 u	1.834 u	1.834 u	4.126 e	4.126 u	4.126 u
Tokelau	0.022 u	0.022 u	0.022 u	0.022 u	0.022 u	0.022 u	0.022 u	0.022 e	
Tonga	0.342 e	0.342 e	0.594 u	0.594 u	0.594 u	0.594 u	0.594 u	0.594 u	0.594 u
Tuvalu	1.152 u	1.181 u	1.129 e	0.986 e	1.023 e	1.023 u	1.023 u	1.023 u	1.023 u
Vanuatu	0.605 u	2.415 u	3.080 u	4.116 u	4.240 u	4.204 u	4.288 u	4.308 u	4.308 u
S America	99.228	109.595	89.044	104.962	112.997	120.437	142.187	158.335	170.581
Argentina	8.540 u	8.086 u	8.040 u	8.450 u	8.665 u	9.878 u	12.008 u	12.594 u	12.412 u
Bolivia	5.670 o	5.825 o	5.370 o	6.320 o	5.970 e	4.570 o	4.300 o	6.520 o	6.750 o
Brazil	6.355 u	6.357 u	6.382 u	6.421 u	6.460 u	6.482 u	6.492 u	6.501 u	6.501 u
Chile	0.138 u	0.253 u	0.471 u	0.622 u	0.715 u	0.880 u	0.976 u	0.987 u	1.001 u
Colombia	2.086 u	2.128 u	3.570 u	5.751 u	11.523 u	18.194 u	21.470 u	24.746 u	28.022 u
Ecuador	2.944 o	3.235 o	3.311 o	4.492 o	3.949 o	3.425 o	5.227 o	5.744 e	5.559 o
Falklands Malv	0.123 u	0.123 u	0.123 u	0.123 u	0.123 u	0.123 u	0.123 u	0.123 u	0.123 u
Fr Guiana	0.182 u	0.180 u	0.178 u	0.176 u	0.158 u	0.158 u	0.131 u	0.151 u	0.160 u
Guyana	1.047 u	1.054 u	0.986 u	0.888 u	1.019 u	1.044 u	2.701 u	8.464 u	14.667 u
Paraguay	0.083 u	0.083 u	0.083 u	0.083 u	0.151 u	0.220 u	0.961 u	1.703 u	1.703 u
Peru	64.792 o	74.209 o	51.246 o	59.561 o	61.200 e	59.561 e	59.561 e	59.561 u	59.561 u
Suriname	0.029 u	0.029 u	0.426 u	0.833 u	1.310 u	2.498 u	4.874 u	6.530 u	7.743 u
Uruguay	1.649 u	2.443 u	3.268 u	5.652 u	6.164 u	7.814 u	17.773 u	19.121 u	20.789 u
Venezuela	5.590 u	5.590 u	5.590 u	5.590 u	5.590 u	5.590 u	5.590 u	5.590 u	5.590 u

Other off-grid renewable energy

Autres énergies renouvelables hors réseau

Otras energías renovables fuera de red

CAP (MW)	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
World	4 924.300	4 363.909	4 604.775	4 452.368	4 980.562	5 442.792	6 306.174	6 541.263	6 554.638	6 758.224
Africa	82.448	122.883	123.373	123.373	123.373	143.373	143.373	143.373	153.373	153.373
Algeria	10.200 o	10.200 u	10.000 u	10.000 u	10.000 u	10.000 u	10.000 u	10.000 u	10.000 e	10.000 u
Burkina Faso	0.150 u	0.150 u	0.150 u	0.150 u	0.150 u	0.150 u	0.150 u	0.150 u	0.150 e	0.150 e
Burundi	4.000 o	4.000 o	4.000 o	4.000 o	4.000 o	4.000 o	4.000 o	4.000 o	4.000 o	4.000 o
Chad	1.100 u	1.100 u	1.100 u	1.100 u	1.100 o	1.100 e	1.100 e	1.100 e	1.100 e	1.100 e
Congo DR	0.160 u	2.160 u	2.960 u	2.960 e	2.960 e	2.960 e	2.960 e	2.960 e	12.960 e	12.960 e
Djibouti						20.000 u	20.000 u	20.000 u	20.000 e	20.000 u
Egypt	5.000 o	5.000 o	5.000 o	5.000 o	5.000 o	5.000 u	5.000 u	5.000 u	5.000 u	5.000 u
Eritrea	0.825 u	0.825 u	0.825 u	0.825 u	0.825 u	0.825 u	0.825 u	0.825 u	0.825 u	0.825 u
Ethiopia	0.006 u	0.006 u	0.006 u	0.006 u	0.006 o	0.006 o	0.006 u	0.006 u	0.006 e	0.006 u
Gabon	1.200 u	1.200 u	1.200 u	1.200 u	1.200 u	1.200 u	1.200 u	1.200 u	1.200 u	1.200 u
Ghana	8.294 u	8.294 u	8.294 u	8.294 u	8.294 u	8.294 u	8.294 u	8.294 u	8.294 u	8.294 u
Kenya	0.604 e	0.714 e	0.604 e	0.604 e	0.604 e	0.604 e	0.604 e	0.604 e	0.604 u	0.604 u
Liberia	0.130 u	0.205 u	0.205 u	0.205 u	0.205 u	0.205 u	0.205 u	0.205 u	0.205 u	0.205 u
Madagascar	0.411 o	0.411 u	0.411 u	0.411 u	0.411 u	0.411 u	0.411 u	0.411 u	0.411 u	0.411 u
Mali	5.366 u	40.366 u	40.366 u	40.366 u	40.366 u	40.366 u	40.366 u	40.366 u	40.366 u	40.366 u
Mauritania	4.400 o	4.400 o	4.400 u	4.400 u	4.400 u	4.400 u	4.400 u	4.400 u	4.400 e	4.400 u
Morocco	5.000 o	5.000 o	5.000 o	5.000 o	5.000 o	5.000 o	5.000 o	5.000 o	5.000 o	5.000 o
Nigeria	9.017 u	9.017 u	9.017 u	9.017 u	9.017 u	9.017 u	9.017 u	9.017 u	9.017 u	9.017 u
Somalia	2.800 u	3.550 u	3.550 u	3.550 u	3.550 e	3.550 u	3.550 u	3.550 u	3.550 e	3.550 u
Tanzania	23.785 u	26.285 u	26.285 u	26.285 u	26.285 u	26.285 u	26.285 u	26.285 u	26.285 u	26.285 u
Asia	4 364.270	3 725.789	3 920.290	3 759.972	4 288.136	4 685.111	5 538.897	5 792.696	5 753.456	5 918.542
Afghanistan	0.100 u	0.100 u	0.100 u	0.100 u	0.100 u	0.100 u	0.100 u	0.100 u	0.100 u	0.100 u
Bangladesh	7.050 u	7.050 u	7.050 u	7.050 u	7.350 u	7.350 u	7.350 u	7.350 u	7.350 u	7.350 u
Cambodia	26.950 u	26.950 u	26.950 u	26.950 u	26.950 u	26.950 u	26.950 u	24.950 u	24.950 u	24.950 u
China	342.690 o	370.390 o	401.150 o	431.910 u	462.670 o	493.430 u	524.190 u	554.950 u	585.710 u	616.470 u
India	843.616 u	849.946 u	896.347 u	866.629 u	964.169 u	964.169 u	968.369 u	1 020.369 u	1 113.909 u	1 128.224 u
Indonesia	1 633.000 u	1 669.000 u	1 685.260 u	1 687.260 u	1 716.220 u	2 082.810 u	2 893.410 u	3 153.050 u	2 989.510 u	3 110.510 u
Lao PDR			0.290 u	0.290 u	0.290 u	0.290 u	0.290 u	0.290 u	0.290 u	0.290 u
Malaysia	1 243.000 o	531.640 o	531.640 o	531.640 o	531.640 o	531.640 o	531.640 o	531.640 o	531.640 o	531.640 o
Maldives	1.407 u	1.407 u	1.407 u	1.407 u	1.407 u	1.407 u	1.407 u	1.407 u	1.407 u	1.407 u
Mongolia	1.006 u	1.006 u	1.006 u	1.006 u	1.000 u	0.994 o	0.989 u	0.989 u	0.989 u	0.000 u
Myanmar	49.221 u	51.618 u	56.308 u	58.358 u	58.358 u	58.358 u	58.358 u	58.358 u	58.358 u	58.358 u
Nepal	0.069 u	0.503 u	0.603 u	0.633 u	0.633 u	1.191 u	1.311 u	1.311 u	1.311 u	1.311 u
Pakistan	0.561 e	0.579 e	0.579 e	0.579 e	0.579 e	0.579 e	0.579 e	0.579 e	0.579 e	0.579 e
Philippines	22.580 u	22.580 u	22.580 u	39.140 u	39.140 u	39.140 u	39.140 u	39.140 u	39.140 u	39.140 u
Thailand				442.110 u	442.110 u	457.683 u	465.794 u	379.163 u	379.163 u	379.163 u
Timor Leste	0.020 u	0.020 u	0.020 u	0.020 u	0.020 u	0.020 u	0.020 u	0.050 u	0.050 u	0.050 u
Viet Nam	193.000 u	193.000 u	289.000 u	107.000 u	35.500 u	19.000 u	19.000 u	19.000 u	19.000 u	19.000 u
C America + Carib	88.571	119.571	119.595	120.346	120.346	120.346	122.686	122.686	122.686	122.686
Bahamas	0.300 u	0.300 u	0.300 u	0.300 u	0.300 u	0.300 u	0.300 u	0.300 u	0.300 u	0.300 u
Belize	0.020 u	0.020 u	0.020 u	0.020 u	0.020 u	0.020 u	0.020 u	0.020 u	0.020 u	0.020 u
Br Virgin Is	0.500 u	0.500 u	0.500 u	0.801 u	0.801 u	0.801 u	0.801 u	0.801 u	0.801 u	0.801 u
Cuba				0.450 u	0.450 u	0.450 u	0.450 u	0.450 u	0.450 u	0.450 o
Dominica	0.001 u	0.001 u	0.001 u	0.001 u	0.001 u	0.001 u	0.001 u	0.001 u	0.001 e	0.001 o
Dominican Rep	20.050 e	51.050 e	51.050 e	51.050 e	51.050 e	51.050 e	53.390 e	53.390 e	53.390 e	53.390 o
Haiti			0.024 u	0.024 u	0.024 u	0.024 u	0.024 u	0.024 u	0.024 u	0.024 u
Honduras	7.414 e	7.414 e	7.414 e	7.414 e	7.414 e	7.414 e	7.414 e	7.414 e	7.414 e	7.414 u
Nicaragua	0.010 u	0.010 u	0.010 u	0.010 u	0.010 u	0.010 u	0.010 u	0.010 u	0.010 e	0.010 u
Panama	60.000 u	60.000 u	60.000 u	60.000 u	60.000 u	60.000 u	60.000 u	60.000 e	60.000 e	60.000 u
St Lucia	0.176 e	0.176 u	0.176 u	0.176 u	0.176 u	0.176 u	0.176 u	0.176 u	0.176 u	0.176 o
US Virgin Is	0.100 o	0.100 o	0.100 u	0.100 u	0.100 u	0.100 u	0.100 u	0.100 e	0.100 e	0.100 o
Middle East	5.400	5.400	5.400	5.400	5.410	5.415	5.415	5.415	5.415	5.415
Jordan					0.010 o	0.010 o	0.010 u	0.010 u	0.010 u	0.010 u
Kuwait	2.400 u	2.400 u	2.400 u	2.400 u	2.400 u	2.400 u	2.400 u	2.400 u	2.400 u	2.400 u
Lebanon	3.000 u	3.000 u	3.000 u	3.000 u	3.000 u	3.000 u	3.000 u	3.000 u	3.000 u	3.000 u
Yemen						0.005 o	0.005 u	0.005 u	0.005 u	0.005 u
N America			0.050	0.050	0.050	0.050	0.056	0.056	0.071	0.071
Greenland			0.050 u	0.050 u	0.050 u	0.050 u	0.056 e	0.056 e	0.071 e	0.071 u
Oceania	69.094	69.094	69.095	69.095	69.095	69.095	69.095	69.095	70.095	70.095
Fiji	0.024 u	0.024 u	0.024 u	0.024 u	0.024 u	0.024 u	0.024 u	0.024 u	0.024 u	0.024 o
Fr Polynesia	0.248 u	0.248 u	0.248 u	0.248 u	0.248 u	0.248 u	0.248 u	0.248 u	0.248 u	0.248 u
Marshall Is	0.010 u	0.010 u	0.011 u	0.011 u	0.011 u	0.011 u	0.011 u	0.011 u	0.011 u	0.011 u
Papua N Guin	68.312 u	68.312 u	68.312 u	68.312 u	68.312 u	68.312 u	68.312 u	68.312 u	69.312 u	69.312 o
Solomon Is	0.500 u	0.500 u	0.500 u	0.500 u	0.500 u	0.500 u	0.500 u	0.500 u	0.500 u	0.500 o
S America	314.517	321.172	366.972	374.132	374.152	419.402	426.652	407.942	449.542	488.042
Argentina	91.335 o	91.350 o	91.350 o	91.350 o	91.350 u	91.350 u	91.350 o	91.350 o	91.350 u	91.350 u
Bolivia	84.500 e	76.000 e	117.500 e	122.500 e	122.500 e	121.630 e	121.630 e	139.920 o	139.920 o	139.920 u
Colombia	0.059 o	0.099 o	0.099 o	0.059 u	0.059 u	5.579 e	5.579 e	5.579 e	5.579 u	5.579 u
Ecuador	4.650 o	4.650 o	4.650 o	4.650 o	4.650 o	4.650 o	4.650 o	4.650 o	4.650 o	4.650 o
Falklands Malv	0.340 o	0.340 o	0.340 o	0.340 u	0.340 u	0.340 u	0.340 u	0.340 u	0.340 u	0.340 u
Fr Guiana						3.000 u	3.000 u	3.000 u	3.000 u	3.000 u
Guyana	14.827 u	14.827 u	14.827 u	14.827 u	14.827 u	14.827 u	14.827 u	14.827 u	14.827 u	14.827 u
Paraguay					0.020 o	0.020 o	0.020 o	0.020 u	0.020 u	0.020 u
Peru	66.300 e	76.300 e	74.400 u	74.400 u	74.400 u	66.000 e	73.250 e	36.250 u	77.850 o	116.350 u
South Georgia	0.006 u	0.006 u	0.006 u	0.006 u	0.006 u	0.006 u	0.006 u	0.006 u	0.006 u	0.006 u
Suriname	1.500 o	1.500 o	1.500 o	1.500 o	1.500 o	1.500 o	1.500 o	1.500 u	1.500 u	1.500 u
Uruguay	0.800 o	5.900 o	12.100 o	14.300 o	14.300 o	14.300 o	14.300 o	14.300 o	14.300 o	14.300 o
Venezuela	50.200 u	50.200 u	50.200 u	50.200 u	50.200 u	96.200 u	96.200 u	96.200 u	96.200 u	96.200 u

Other off-grid renewable energy

Autres énergies renouvelables hors réseau

Otras energías renovables fuera de red

PROD (GWh)	2016	2017	2018	2019	2020	2021	2022	2023	2024
World	14 134.842	15 924.670	18 019.374	20 483.982	24 636.181	28 109.457	34 849.299	39 726.252	37 790.781
Africa	204.429	217.586	212.571	211.503	213.002	212.230	214.657	213.017	249.749
Algeria	19.400 o	19.400 u	10.000 o	10.000 o	8.000 o	11.000 u	16.000 e	13.570 u	13.570 u
Burkina Faso	0.300 u	0.300 u	0.300 u	0.300 u	0.300 u	0.300 u	0.300 u	0.300 u	0.300 u
Burundi	6.632 o	6.586 o	5.669 o	5.426 o	5.548 o	5.391 o	4.331 o	4.249 o	4.249 o
Chad	8.900 e	8.900 e	8.900 e	8.900 e	8.900 e	8.900 e	8.900 e	8.900 e	8.900 e
Congo DR	0.420 e	5.676 e	7.779 e	7.779 e	7.779 e	7.779 e	7.779 e	7.779 e	46.659 e
Egypt	12.445 u	12.445 u	12.445 u	12.445 u	12.445 u	12.445 u	12.445 u	12.445 u	12.445 e
Eritrea	2.000 e	1.445 e	1.445 e	1.445 e	1.445 e	1.445 e	1.445 e	1.445 e	1.445 e
Ethiopia	0.011 u	0.011 o	0.011 o	0.011 u	0.011 u	0.011 u	0.011 u	0.011 u	0.011 u
Gabon	1.220 e	1.220 e	1.220 e	1.220 e	1.220 e	1.220 e	1.220 e	1.220 e	1.220 e
Ghana	19.435 e	19.435 e	19.435 e	19.435 e	19.435 e	19.435 e	19.435 e	19.435 e	19.435 e
Kenya	0.676 e	0.343 e	0.103 e	0.206 e	0.176 e	0.011 e	0.011 e		
Liberia	0.342 e	0.559 e	0.559 e	0.559 e	0.559 e	0.559 e	0.559 e	0.559 e	0.559 e
Madagascar	1.080 e	1.080 e	1.080 e	1.080 e	1.080 e	1.080 e	1.080 e	1.080 e	1.080 e
Mali	12.039 e	13.257 e	14.474 e	15.988 e	16.218 e	16.333 e	16.333 e	14.953 e	14.498 e
Mauritania	13.336 u	13.336 u	13.336 u	13.336 u	13.336 u	13.336 u	13.336 u	13.336 u	13.336 u
Morocco	15.242 o	15.242 u	15.242 u	15.242 o	15.242 o	15.242 u	15.242 u	15.242 u	15.242 u
Nigeria	22.490 u	28.281 e	30.190 e	26.618 e	29.864 e	26.447 e	24.861 e	26.981 e	24.895 e
Somalia	5.000 u	6.000 u	6.000 u	6.000 u	6.000 u	6.000 u	6.000 u	6.000 u	6.000 u
Tanzania	63.461 e	64.069 e	64.383 e	65.513 e	65.444 e	65.295 e	65.369 e	65.512 e	65.905 e
Asia	12 627.606	14 331.997	16 546.718	19 063.382	23 112.978	26 522.093	33 248.840	38 361.281	36 305.140
Afghanistan	0.123 u	0.123 u	0.123 u	0.123 u	0.123 u	0.123 u	0.123 u	0.123 u	0.123 u
Bangladesh	7.232 e	7.232 e	7.232 e	7.232 e	7.364 e	7.364 e	7.364 e	7.364 e	7.364 e
Cambodia	30.743 u	23.642 u	17.786 u	17.019 u	16.681 u	16.302 u	16.302 u	16.302 u	16.302 e
China	420.275 o	454.246 o	491.970 u	529.694 u	567.418 u	605.143 u	642.867 u	680.591 u	718.315 u
Chinese Taipei		0.000 e							
India	1 871.825 u	1 930.986 u	2 790.879 u	4 653.319 u	5 722.545 u	5 591.097 u	6 462.876 u	6 620.656 u	8 847.652 u
Indonesia	9 628.239 u	11 121.085 u	11 805.000 u	11 823.000 u	12 059.000 u	14 595.000 u	20 276.000 u	22 095.000 u	20 949.000 u
Korea Rep	0.000 e	0.000 e							
Lao PDR			0.762 u	0.762 u	0.762 u	0.762 u	0.762 u	0.762 u	0.762 u
Malaysia	92.388 e	181.088 e	777.550 e	1 557.594 e	2 343.236 e	3 257.236 e	3 257.236 e	3 257.236 e	3 257.236 e
Maldives	2.465 u	2.465 u	2.465 u	2.465 u	2.465 u	2.465 u	2.465 u	2.465 u	2.465 u
Mongolia	1.006 u	1.006 o	1.006 o	1.006 o	1.007 o	1.008 o	1.009 o	1.009 u	1.009 u
Myanmar	211.589 u	229.419 e	249.962 u	258.942 u	259.748 u	255.001 u	261.331 u	261.331 u	261.331 u
Nepal	0.121 u	0.161 u	1.037 u	1.681 u	1.681 u	3.389 u	3.758 u	3.758 u	3.758 e
Pakistan	0.272 e	0.272 e	0.272 e	0.272 e	0.272 e	0.272 e	0.272 e	0.272 e	0.272 e
Philippines	79.120 e	79.120 e	79.120 u	86.900 u	86.786 u	88.676 u	105.880 u	122.014 u	131.190 u
Singapore		0.000 e							
Thailand					1 986.677 u	2 051.606 u	2 163.946 u	5 245.749 u	2 061.688 u
Timor Leste	0.055 u	0.055 u	0.055 u	0.055 u	0.055 u	0.055 u	0.055 u	0.055 u	0.079 u
Viet Nam	282.153 e	301.097 e	321.499 e	123.318 e	57.158 e	46.594 e	46.594 e	46.594 e	46.594 e
C America + Carib	406.412	520.557	539.780	479.612	488.871	481.826	491.469	480.117	470.919
Bahamas	0.788 u	0.788 u	0.788 u	0.788 u	0.788 u	0.788 u	0.788 u	0.788 u	0.788 u
Belize	0.025 e	0.025 e	0.025 e	0.025 e	0.025 e	0.025 e	0.025 e	0.035 e	0.035 e
Br Virgin Is	1.533 u	1.533 u	1.533 u	2.453 u	2.455 u	2.455 u	2.455 u	2.455 e	2.455 u
Cuba				0.986 u	0.986 u	0.986 u	0.986 u	0.986 u	0.986 u
Dominica	0.003 u	0.003 u	0.003 u	0.003 u	0.003 u	0.003 u	0.003 u	0.003 u	0.003 e
Dominican Rep	112.156 u	234.358 e	234.358 e	232.670 e	232.670 e	232.670 e	240.869 e	249.069 e	249.069 u
Haiti			0.033 e	0.065 e	0.065 e	0.065 u	0.070 e	0.070 o	0.070 o
Honduras	12.315 e	10.688 e	11.265 e	12.230 e	3.453 e	3.453 e	3.453 e	12.651 u	3.453 u
Nicaragua				6.908 e	6.524 e	8.443 e	8.443 e	8.443 e	8.443 o
Panama	278.857 e	272.427 e	291.040 e	222.749 e	241.167 e	232.203 e	233.642 e	204.882 e	204.882 e
St Lucia	0.463 u	0.463 u	0.463 u	0.463 u	0.463 u	0.463 u	0.463 u	0.463 u	0.463 u
US Virgin Is	0.272 u	0.272 u	0.272 u	0.272 u	0.272 u	0.272 u	0.272 e	0.272 e	0.272 e
Europe		0.000							
Moldova Rep		0.000 o							
Middle East	7.051	7.051	1.051	1.051	1.051	1.051	1.051	1.051	14.839
Lebanon	6.000 u	6.000 u	0.000 u	0.000 u					
Syrian AR	1.051 u	1.051 u	1.051 u	1.051 u	1.051 u	1.051 u	1.051 u	1.051 e	14.839 o
N America			0.088	0.088	0.088	0.088	0.098	0.245	0.311
Greenland			0.088 u	0.088 u	0.088 e	0.088 e	0.098 e	0.245 e	0.311 u
Oceania	222.520	192.926	163.732	130.029	130.157	131.991	131.991	131.991	131.991
Fiji	0.063 u	0.063 u	0.063 u	0.063 u	0.063 u	0.063 u	0.063 u	0.063 e	0.063 u
Fr Polynesia	0.078 o	0.078 o	0.078 o	0.078 u	0.078 u	0.078 u	0.078 u	0.078 u	0.078 u
Marshall Is	0.020 u	0.020 u	0.022 u	0.022 u	0.022 u	0.022 u	0.022 u	0.022 e	0.022 u
Papua N Guin	219.205 u	190.009 u	160.813 u	127.110 u	127.238 u	128.495 u	128.495 e	128.495 u	128.495 u
Solomon Is	3.154 u	2.756 u	2.756 u	2.756 u	2.756 u	3.333 o	3.333 u	3.333 e	3.333 u

Other off-grid renewable energy

Autres énergies renouvelables hors réseau

Otras energías renovables fuera de red

PROD (GWh)	2016	2017	2018	2019	2020	2021	2022	2023	2024
S America	666.824	654.553	555.434	598.317	690.034	760.178	761.193	538.550	617.833
Argentina	178.142 u	178.162 u	178.181 u	178.181 u	178.181 u	178.181 u	178.181 u	178.181 u	178.181 u
Bolivia	114.290 o	121.560 o	91.280 o	66.720 o	193.180 e	271.910 o	249.000 u	141.800 u	154.010 u
Colombia	0.156 u	0.261 u	0.261 u	0.209 u	0.156 u	14.663 u	14.663 u	14.663 u	14.663 u
Ecuador	5.988 o	6.235 o	6.556 o	5.574 o	5.463 o	1.951 o	2.708 e	2.592 e	1.737 o
Falklands Malv	1.191 o	1.191 o	1.191 o	1.191 o	1.191 o	1.191 o	1.191 o	1.191 e	1.191 e
Fr Guiana						11.116 u	12.452 u	10.680 u	13.669 u
Guyana	12.053 u	9.558 u	6.391 u	5.922 u	9.433 u	6.571 e	5.606 u	5.446 u	2.800 u
Paraguay					0.018 u	0.035 u	0.035 u	0.035 u	0.035 u
Peru	249.301 u	221.594 o	196.413 e	232.954 e	232.041 e	207.080 e	233.801 e	120.502 e	188.158 e
South Georgia	0.011 u	0.011 u	0.011 u	0.011 u	0.011 u	0.011 u	0.011 u	0.011 u	0.011 u
Suriname	6.000 o	6.000 o	6.000 o	6.000 o	6.000 o	6.000 o	6.000 u	6.000 u	6.000 u
Uruguay	2.102 e	14.761 e	26.150 u	41.195 e	44.480 e	42.329 e	41.325 e	41.229 e	41.158 e
Venezuela	97.590 u	95.220 u	43.000 u	60.360 u	19.880 u	19.140 u	16.220 u	16.220 e	16.220 e

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)	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
World	30.8	32.1	33.1	34.5	36.6	38.4	40.2	43.2	46.5	49.5
Africa	19.7	20.4	20.5	20.9	21.6	22.0	23.4	25.2	26.4	29.1
Algeria	2.5	2.9	2.7	2.5	2.3	2.0	2.2	2.2	2.1	2.1
Angola	55.9	51.1	57.1	59.4	61.6	61.6	63.3	63.4	63.7	63.9
Benin	1.3	1.4	1.7	1.4	1.7	2.1	10.1	10.6	10.6	10.6
Botswana	0.4	0.4	0.4	0.6	0.6	0.7	0.7	1.0	6.7	15.6
Burkina Faso	11.0	19.7	23.0	21.1	21.2	19.2	24.0	34.9	38.8	38.8
Burundi	73.3	51.7	51.8	51.8	51.8	54.8	60.1	60.3	60.5	77.9
Cabo Verde	18.8	18.9	21.1	23.5	22.7	23.7	23.2	25.1	26.8	31.6
Cameroon	54.0	52.1	51.9	54.5	54.9	55.2	55.2	59.9	68.1	68.1
Cent Afr Rep	46.4	46.5	46.5	46.5	46.6	21.0	21.0	45.2	45.2	45.2
Chad	1.1	1.2	1.3	1.3	1.5	1.6	1.7	1.7	1.7	28.8
Comoros	9.4	10.7	10.7	10.8	10.7	18.2	17.2	17.3	17.3	33.4
Congo DR	98.8	98.8	98.8	98.8	98.8	98.8	97.5	97.6	88.6	88.6
Congo Rep	33.4	34.6	34.6	34.6	27.5	27.5	27.5	27.5	26.7	22.2
Cote d'Ivoire	31.3	39.9	39.9	39.5	39.5	38.9	34.7	31.4	33.9	33.9
Djibouti	0.3	0.3	0.3	0.3	0.3	14.2	14.2	39.5	39.5	39.6
Egypt	9.5	8.4	8.6	9.7	10.0	10.5	10.4	11.1	12.5	14.6
Eq Guinea	33.8	31.8	31.8	31.8	31.8	31.7	31.7	31.7	31.7	31.7
Eritrea	5.8	10.6	11.5	11.5	11.5	11.2	11.1	11.1	11.1	11.2
Eswatini	94.4	94.4	94.4	94.4	94.4	94.7	95.2	95.2	95.2	95.2
Ethiopia	96.4	97.8	98.1	97.7	97.8	97.9	98.2	98.3	98.4	99.0
Gabon	36.7	37.4	38.3	45.7	45.7	45.7	45.7	45.7	46.5	38.4
Gambia	2.9	3.6	1.8	2.1	2.1	1.9	1.8	1.8	14.0	14.0
Ghana	42.7	35.3	34.8	32.5	31.8	31.3	31.0	31.2	30.2	30.2
Guinea	62.0	60.3	60.7	62.5	61.6	66.0	66.0	66.0	66.0	66.0
Guinea Bissau	2.4	3.3	6.1	6.1	5.9	6.8	6.1	6.7	8.9	8.9
Kenya	66.1	67.4	71.7	71.9	75.1	76.4	79.3	82.6	83.0	82.9
Lesotho	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.4	99.4	99.4
Liberia	21.8	48.9	49.0	49.1	49.3	49.4	49.6	49.7	49.7	50.2
Libya	0.1	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1
Madagascar	24.3	22.4	23.1	23.2	23.3	23.3	28.2	28.7	28.8	29.1
Malawi	91.6	80.6	76.6	74.9	74.9	78.2	79.6	79.6	79.6	79.6
Mali	43.9	44.3	44.4	43.8	46.4	48.0	53.8	49.3	50.9	50.9
Mauritania	14.3	14.3	21.2	20.8	20.8	19.5	19.7	34.0	36.8	36.4
Mauritius	22.6	21.2	26.9	29.0	29.9	30.4	30.4	32.2	33.2	33.2
Mayotte	11.9	13.3	13.7	14.5	15.8	23.3	23.3	24.0	24.0	24.0
Morocco	28.9	28.7	29.8	30.5	33.0	33.1	34.3	36.9	38.7	39.6
Mozambique	79.9	80.4	77.5	77.8	78.5	78.6	77.7	78.0	78.1	78.1
Namibia	67.0	69.5	72.2	74.6	71.5	71.6	75.7	75.5	75.5	79.2
Niger	2.5	2.0	4.0	3.8	4.0	4.0	10.0	15.6	15.6	15.6
Nigeria	17.1	17.1	16.5	16.6	16.7	16.9	17.1	21.4	21.6	21.8
Reunion	45.6	45.6	48.2	48.5	49.4	50.1	53.1	88.3	89.9	89.9
Rwanda	48.6	49.3	49.4	51.9	53.9	54.0	48.4	48.4	44.2	37.3
Sao Tome Prn	7.0	7.6	7.6	7.4	7.4	7.0	6.4	12.2	9.3	11.8
Senegal	12.5	16.8	15.9	21.6	27.6	31.1	28.8	28.8	22.0	23.3
Seychelles	7.1	7.6	8.9	8.4	10.8	17.5	18.0	18.6	18.8	18.8
Sierra Leone	55.5	56.8	48.3	41.4	41.6	43.3	44.5	44.6	44.5	44.7
Somalia	4.7	6.0	5.5	5.7	12.6	17.5	30.2	31.8	14.2	14.2
South Africa	8.7	10.2	10.4	10.9	12.5	12.9	15.9	19.4	20.7	23.7
South Sudan	1.5	1.5	1.7	1.5	2.2	2.1	2.3	7.9	13.5	18.6
Sudan	46.1	46.2	47.4	47.7	48.2	48.4	49.2	49.2	49.2	49.2
Tanzania	44.7	47.9	40.0	39.9	39.8	37.1	35.5	37.2	53.5	69.2
Togo	27.9	28.1	29.0	29.8	30.8	37.2	37.6	37.7	37.8	43.0
Tunisia	6.5	6.5	7.3	7.2	6.8	6.8	7.7	11.9	15.2	16.6
Uganda	85.1	85.5	89.7	91.8	92.2	92.6	92.7	94.4	94.9	95.0
Zambia	83.8	82.2	82.4	82.9	82.9	84.4	86.3	86.4	86.3	85.0
Zimbabwe	42.3	42.4	49.7	49.8	49.8	50.1	49.4	39.8	41.0	41.0

Renewable energy share of electricity capacity

Part d'énergie renouvelable dans la puissance installée

Porcentaje de energía renovable en la capacidad instalada

CAP (%MW)	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Asia	28.6	30.4	31.7	33.1	35.7	37.7	39.7	43.5	47.6	51.4
Afghanistan	59.7	61.2	61.1	59.2	59.2	60.2	65.4	65.4	65.9	66.7
Bangladesh	2.9	3.2	2.6	2.6	2.6	3.3	3.1	3.6	4.0	5.0
Bhutan	99.5	99.5	99.5	99.7	99.6	99.6	99.6	99.6	99.7	99.8
Brunei Darism	0.1	0.1	0.1	0.1	0.1	0.4	0.4	0.4	0.4	0.4
Cambodia	57.8	55.9	63.9	61.2	56.5	58.1	52.8	47.9	58.8	60.5
China	33.1	35.2	36.6	37.7	40.7	42.8	45.1	49.8	54.3	58.0
China HK SAR	0.0	0.4	0.5	1.4	1.4	1.4	2.3	3.6	4.3	4.4
Chinese Taipei	8.9	10.0	11.3	13.3	16.0	19.0	22.3	27.5	31.0	32.3
India	24.8	27.1	28.1	29.0	29.9	31.7	33.9	35.2	38.3	42.7
Indonesia	15.5	15.2	15.1	14.8	14.4	15.5	15.0	14.6	13.8	15.3
Japan	22.3	24.3	26.0	28.5	30.2	31.8	33.1	34.9	35.4	36.5
Kazakhstan	12.9	13.1	13.7	15.6	17.7	18.9	20.7	21.4	22.4	22.8
Korea DPR	61.5	61.9	59.0	59.1	59.5	59.7	59.7	59.7	60.1	60.1
Korea Rep	8.7	9.7	11.4	13.9	16.8	17.7	19.2	20.5	25.0	26.8
Kyrgyzstan	85.3	85.4	85.3	85.3	85.3	75.1	77.3	77.3	78.2	79.2
Lao PDR	74.8	75.7	77.0	79.4	83.2	84.7	85.6	85.8	86.3	88.5
Malaysia	23.6	21.0	22.1	21.8	24.1	23.2	23.8	24.5	25.7	25.7
Maldives	4.0	5.4	3.3	5.5	7.1	7.3	9.2	9.7	11.7	12.6
Mongolia	9.0	14.5	18.9	19.9	18.9	18.4	18.4	18.6	20.4	19.1
Myanmar	64.8	58.1	53.8	52.6	44.5	49.5	49.1	49.1	49.3	49.5
Nepal	94.0	94.8	95.4	95.8	96.2	97.5	97.7	98.1	98.5	98.7
Pakistan	33.5	29.1	32.8	31.4	32.1	32.0	32.4	33.4	34.8	34.8
Philippines	28.4	28.3	27.8	26.6	26.8	26.8	26.7	27.3	30.1	31.1
Singapore	2.0	2.1	2.5	3.6	4.2	5.6	7.1	9.4	12.5	13.1
Sri Lanka	48.5	49.8	51.6	51.5	53.0	57.6	61.4	59.7	64.8	69.5
Tajikistan	87.3	87.3	87.4	88.8	88.8	88.8	88.9	88.9	88.9	89.1
Thailand	21.8	20.7	21.8	22.3	22.1	22.4	21.5	21.4	20.8	25.6
Timor Leste	0.5	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.4
Turkmenistan	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Uzbekistan	13.3	12.9	13.5	12.0	12.2	12.5	13.8	17.2	27.5	36.1
Viet Nam	43.8	41.7	41.1	47.7	55.8	56.2	56.7	57.6	57.9	57.8
C America + Carib	32.6	34.1	34.9	35.5	35.7	37.2	38.1	38.7	39.0	40.4
Anguilla	7.7	7.7	4.7	6.1	6.1	6.1	6.1	6.1	6.1	6.1
Antigua Barb	4.2	5.1	10.7	9.8	14.6	19.2	19.2	12.4	12.4	12.4
Aruba	13.5	13.5	15.3	14.8	14.8	14.8	17.2	17.2	16.3	13.2
Bahamas	0.6	0.5	0.6	0.7	0.7	1.2	1.7	1.7	2.4	2.4
Barbados	5.4	5.9	6.1	11.2	15.7	19.5	19.2	19.2	19.2	19.2
Belize	46.2	48.5	48.6	50.1	50.1	50.1	50.1	50.1	39.9	39.9
BES Islands	32.5	36.0	37.6	39.0	32.5	32.5	32.5	42.6	47.0	45.4
Br Virgin Is	3.0	2.2	2.2	2.8	3.1	3.5	3.5	5.0	5.0	6.8
Cayman Is	1.5	4.5	5.5	6.1	6.9	7.3	7.1	7.1	6.8	7.7
Costa Rica	83.6	83.9	84.3	86.9	86.8	88.2	89.2	89.3	85.9	86.0
Cuba	8.1	9.2	10.1	9.3	11.6	12.0	12.6	12.0	13.4	17.4
Curacao	18.0	26.1	26.4	22.5	22.8	22.8	22.8	22.9	29.2	25.7
Dominica	27.2	27.2	26.3	26.3	25.0	25.0	27.6	31.7	32.7	32.7
Dominican Rep	20.9	22.5	23.1	25.8	26.4	28.3	31.2	33.9	37.4	38.9
El Salvador	56.2	60.3	62.3	65.9	67.4	68.5	59.7	61.5	62.7	62.7
Grenada	4.2	4.3	4.8	5.8	6.6	6.3	6.3	6.4	5.5	5.2
Guadeloupe	26.3	28.0	30.3	32.2	37.2	38.5	39.3	39.5	39.6	39.9
Guatemala	61.7	65.9	69.5	69.7	69.6	70.6	70.6	70.7	70.7	70.7
Haiti	13.2	13.3	17.2	17.2	17.2	17.2	16.9	17.0	17.0	17.9
Honduras	59.9	61.3	61.9	62.8	64.5	64.7	63.7	63.6	59.4	57.1
Jamaica	15.9	17.8	17.5	18.1	16.4	16.4	16.5	16.6	16.8	16.7
Martinique	14.3	14.6	21.4	24.4	24.7	26.2	27.9	28.7	30.0	30.9
Montserrat				3.5	3.5	12.6	12.6	10.2	8.9	8.9
Nicaragua	47.3	45.4	45.4	45.1	45.1	45.3	45.8	45.9	46.4	48.7
Panama	62.3	62.2	58.8	59.7	56.4	65.1	67.6	66.7	67.4	60.4
Puerto Rico	7.8	8.7	8.8	9.0	9.7	11.3	13.3	17.1	16.6	21.2
St Barth	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	3.0	3.0
St Kitts Nevis	5.8	5.5	5.6	5.6	6.9	6.9	6.6	6.6	7.7	7.7
St Lucia	1.2	1.2	4.4	4.6	4.7	4.7	4.7	4.8	5.5	6.1
St Maarten							0.1	0.1	0.1	0.1
St Martin	3.1	0.2	0.2	0.9	1.7	1.7	3.2	3.6	3.6	23.2
St Vincent Gren	15.2	17.0	19.2	22.6	18.2	18.1	17.6	19.5	19.5	19.5
Trinidad Tobago	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	4.5
Turks Caicos	0.0	0.2	0.5	1.0	1.0	2.8	3.5	3.7	3.4	3.9
US Virgin Is	2.9	2.1	3.0	3.0	3.0	3.0	3.0	3.0	8.5	12.7
Eurasia	26.8	27.5	28.2	28.9	30.2	31.3	31.8	33.5	34.5	35.8
Armenia	36.9	37.2	37.8	37.9	38.5	37.1	38.5	44.1	45.2	47.8
Azerbaijan	15.0	15.0	16.3	16.9	17.0	16.5	16.6	20.3	21.3	18.8
Georgia	77.5	77.2	77.8	78.2	73.8	74.1	74.3	74.8	75.0	76.5
Russian Fed	20.7	20.7	20.6	21.0	21.6	22.1	22.3	22.9	22.5	22.6
Türkiye	43.9	45.5	47.7	48.6	51.3	53.3	53.9	56.9	59.4	62.2

Renewable energy share of electricity capacity

Part d'énergie renouvelable dans la puissance installée

Porcentaje de energía renovable en la capacidad instalada

CAP (%MW)	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Europe	42.9	44.4	45.4	47.8	49.7	51.6	54.0	56.7	60.6	62.8
Albania	95.1	95.4	95.6	95.7	96.1	96.3	96.4	96.5	97.1	97.3
Andorra	96.2	96.8	96.8	96.8	96.8	96.8	96.9	97.0	97.1	97.3
Austria	76.7	78.6	79.5	80.2	80.1	76.7	79.8	83.3	84.8	85.6
Belarus	2.2	2.9	3.8	4.1	4.8	4.3	5.5	4.8	4.3	4.3
Belgium	31.2	33.5	36.4	39.5	43.6	45.0	48.9	54.1	55.7	60.7
Bosnia Herzg	40.8	40.6	41.6	42.2	42.5	43.5	44.1	45.4	50.7	53.8
Bulgaria	38.6	39.5	38.1	38.5	39.7	40.4	38.2	43.1	49.0	52.9
Croatia	57.6	58.7	59.5	65.1	69.8	71.6	72.1	74.0	80.4	80.0
Cyprus	14.3	15.5	16.1	17.7	21.1	24.5	28.5	33.4	38.0	41.0
Czechia	19.1	19.2	19.1	19.8	20.6	21.4	22.3	25.0	27.4	29.1
Denmark	52.1	57.2	59.4	61.3	63.8	67.1	68.9	69.8	71.8	73.4
Estonia	23.6	24.2	21.6	26.1	30.3	42.0	44.8	51.1	74.9	78.3
Faroe Islands	46.3	46.3	44.8	40.4	36.0	35.9	43.8	48.3	48.8	48.9
Finland	40.9	43.3	43.7	44.6	49.8	52.1	62.0	62.4	66.8	69.0
France	33.6	35.6	37.3	38.6	40.1	41.8	43.3	45.8	48.2	50.4
Germany	50.2	52.3	52.0	54.0	56.3	57.3	58.4	62.3	67.4	71.1
Greece	44.0	44.6	45.9	48.2	52.2	56.3	56.4	60.1	62.1	67.2
Hungary	12.0	13.8	17.5	22.9	28.2	33.7	40.5	50.3	55.8	57.3
Iceland	95.8	95.9	96.1	96.1	96.1	95.8	95.8	97.5	97.5	97.5
Ireland	31.0	34.6	36.9	40.8	42.4	42.7	44.2	47.3	52.7	56.7
Italy	44.8	45.5	46.0	46.6	47.5	48.4	49.4	49.8	51.9	53.0
Kosovo*	8.2	8.6	8.6	9.1	10.7	10.9	13.0	13.0	14.8	14.8
Latvia	60.7	61.1	61.4	62.1	62.0	62.0	63.9	67.8	70.9	72.0
Lithuania	20.9	23.7	25.1	26.0	28.5	34.2	43.0	53.2	64.8	71.2
Luxembourg	17.6	18.6	18.9	21.7	23.8	26.8	29.2	34.5	39.2	45.3
Malta	16.9	16.1	18.5	20.9	23.8	25.3	30.0	32.2	28.6	29.6
Moldova Rep	2.3	2.7	3.5	3.6	3.8	4.9	8.0	12.5	17.6	25.9
Montenegro	74.8	76.8	76.9	77.9	78.4	78.4	78.4	78.7	79.8	80.4
Netherlands	21.7	24.1	28.3	34.1	43.4	49.0	52.3	58.9	61.2	61.6
North Macedonia	39.4	40.3	40.5	40.6	41.3	37.7	40.9	50.6	55.8	58.8
Norway	97.0	97.0	97.1	97.2	97.6	97.8	98.2	98.8	98.8	98.8
Poland	20.7	18.6	19.2	21.3	24.4	30.7	39.1	45.1	49.6	52.3
Portugal	64.1	64.8	65.0	65.5	65.8	70.9	75.9	77.4	79.1	80.1
Romania	47.6	47.5	47.6	53.7	54.3	59.5	60.2	64.7	67.7	72.2
Serbia	33.7	33.5	35.3	36.5	36.6	36.8	36.8	38.2	38.3	40.9
Slovakia	31.0	31.1	30.6	31.5	30.8	32.1	32.6	32.2	33.2	35.6
Slovenia	39.9	40.9	38.8	39.5	41.0	41.8	43.8	47.6	51.2	55.4
Spain	45.1	46.2	46.5	49.8	52.9	55.9	60.5	62.5	65.0	67.6
Sweden	69.0	70.8	70.8	72.8	71.3	75.3	77.0	78.6	77.4	78.4
Switzerland	78.1	79.0	79.3	79.6	80.0	81.8	83.2	83.5	84.4	85.1
UK	36.3	38.8	41.3	45.3	46.8	47.9	50.7	53.4	57.2	58.7
Ukraine	10.7	12.2	14.2	21.7	23.8	25.2	25.2	24.8	32.1	32.3
European Union	43.2	44.6	45.4	47.4	49.5	51.7	54.2	57.3	60.5	63.0
Middle East	5.5	5.6	6.0	6.7	7.1	7.6	8.9	10.4	11.7	14.4
Bahrain	0.1	0.1	0.1	0.1	0.1	0.2	0.5	0.6	0.7	1.1
Iran IR	14.1	14.4	14.3	14.3	14.0	13.8	13.8	13.5	13.5	14.3
Iraq	7.2	6.1	5.9	5.9	5.5	5.3	5.1	4.8	4.7	4.6
Israel	5.5	5.9	7.8	11.3	13.5	17.1	21.7	24.9	25.2	28.3
Jordan	12.0	14.7	20.2	24.5	34.3	38.2	38.3	37.3	39.0	39.0
Kuwait	0.1	0.1	0.2	0.5	0.5	0.5	0.6	0.6	0.6	0.6
Lebanon	8.7	8.9	9.3	9.8	10.2	14.5	29.5	33.1	33.1	39.3
Oman	0.0	0.1	0.3	0.7	1.5	1.7	6.1	6.2	6.2	13.7
Palestine	13.9	18.4	20.5	34.2	42.6	52.9	54.7	92.9	93.8	93.9
Qatar	0.3	0.2	0.2	0.2	0.2	0.2	7.2	7.2	7.2	13.8
Saudi Arabia	0.0	0.0	0.1	0.1	0.5	0.5	0.9	3.1	6.9	12.2
Syrian AR	16.0	15.4	14.9	14.9	14.9	15.1	17.3	22.6	29.3	33.6
United Arab Em	0.5	1.1	1.9	5.8	6.6	8.3	9.3	13.9	14.3	15.9
Yemen	5.0	6.4	14.3	13.6	13.6	12.9	13.1	14.0	18.8	20.7
N America	25.4	26.3	27.0	28.5	30.3	32.2	33.5	35.1	37.1	38.7
Canada	66.4	66.8	67.3	67.4	67.1	69.1	70.2	70.2	70.9	71.1
Greenland	48.8	48.8	48.8	48.8	48.9	48.9	48.9	48.9	49.0	49.0
Mexico	26.1	26.3	24.4	28.9	30.1	31.1	27.3	27.9	28.5	28.6
USA	19.8	20.9	21.9	23.3	25.5	27.6	29.5	31.5	33.8	35.8

Renewable energy share of electricity capacity

Part d'énergie renouvelable dans la puissance installée

Porcentaje de energía renovable en la capacidad instalada

CAP (%MW)	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Oceania	31.6	34.3	37.9	41.8	45.0	47.4	50.0	52.5	55.1	57.6
Amer Samoa	10.6	9.7	11.5	10.8	10.8	10.8	13.2	13.2	12.9	11.4
Australia	25.9	29.1	33.6	38.3	42.2	45.0	48.1	50.7	53.3	56.3
Cook Is	14.1	14.1	20.8	23.3	23.3	23.3	23.3	23.1	23.1	23.1
Fiji	56.8	58.5	58.6	55.7	55.8	56.7	56.7	56.8	48.9	49.0
Fr Polynesia	27.4	28.2	29.0	30.0	30.8	30.4	31.9	32.1	37.5	37.6
Guam	7.4	6.9	7.3	8.7	9.0	9.3	20.0	20.0	19.3	14.1
Kiribati	18.7	18.7	21.9	21.9	21.9	21.9	21.7	38.5	38.5	38.5
Marshall Is	5.4	5.5	5.6	5.6	5.6	5.6	5.8	6.2	7.9	7.5
Micronesia	13.3	12.3	14.1	14.8	18.4	18.4	18.4	18.4	18.0	18.0
Nauru	5.7	4.1	4.7	9.3	9.3	10.9	11.8	11.8	11.8	27.9
New Caledon	13.4	14.9	17.8	21.2	23.0	26.5	25.6	25.9	35.1	35.4
New Zealand	77.8	77.8	77.9	78.0	77.3	77.9	78.5	79.2	80.2	80.6
Niue	14.1	14.1	14.1	31.1	31.1	31.1	31.1	31.1	43.5	43.5
Palau	7.1	7.1	8.4	8.2	8.8	12.6	12.6	39.4	39.7	43.4
Papua N Guin	33.5	32.5	32.5	32.2	30.8	29.6	29.7	33.7	33.8	34.4
Samoa	28.8	33.5	35.4	38.4	38.9	39.0	40.8	40.8	40.8	40.8
Solomon Is	6.4	6.7	6.5	6.3	6.3	6.3	9.2	11.4	11.6	14.6
Tokelau	87.6	87.6	87.6	87.8	87.8	87.8	87.8	87.8	87.8	87.8
Tonga	22.8	30.4	31.3	35.3	35.3	31.7	47.3	48.4	46.3	46.7
Tuvalu	53.7	53.8	53.8	53.8	54.3	54.3	54.3	55.0	59.2	59.2
Vanuatu	28.8	30.0	35.5	34.7	34.1	34.1	33.7	34.5	35.0	35.5
S America	65.7	65.7	65.8	66.5	66.5	67.5	69.4	71.3	72.7	73.6
Argentina	30.7	29.1	29.2	31.2	32.9	34.4	34.6	35.2	35.0	36.6
Bolivia	29.9	31.7	37.1	37.3	30.5	31.6	41.2	32.8	32.6	33.5
Brazil	81.9	82.2	83.5	83.3	83.0	83.3	85.0	86.1	87.1	87.2
Chile	37.9	38.9	40.5	41.8	43.0	46.8	52.1	60.7	63.3	65.7
Colombia	70.0	70.0	68.8	69.8	69.5	69.5	70.9	69.4	70.4	71.2
Ecuador	56.4	58.6	60.8	60.8	60.8	60.7	61.1	61.2	59.1	57.1
Falklands Malv	30.8	30.8	30.8	30.8	19.9	19.9	19.9	19.9	20.0	20.0
Fr Guiana	48.1	48.1	48.1	48.1	47.7	48.9	49.1	50.6	51.1	51.1
Guyana	15.4	15.6	16.3	16.6	16.7	14.6	15.8	17.1	17.9	21.7
Paraguay	100.0	100.0	100.0	99.7	99.7	99.7	99.7	99.7	99.7	99.7
Peru	40.5	40.9	41.7	42.7	42.8	43.0	42.5	44.8	45.4	48.8
South Georgia	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	67.6	67.6
Suriname	28.4	28.4	28.5	28.5	28.5	26.9	27.2	27.3	27.5	29.8
Uruguay	83.4	81.8	75.8	76.0	76.0	76.1	76.1	77.7	77.8	77.8
Venezuela	48.8	48.6	46.4	47.6	47.6	47.8	47.8	47.5	47.5	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)	2016	2017	2018	2019	2020	2021	2022	2023	2024
World	23.6	24.4	25.0	26.0	27.8	27.9	29.1	30.0	31.7
Africa	18.7	19.0	20.0	20.9	22.6	23.0	23.0	23.9	29.0
Algeria	0.7	0.7	1.1	1.1	1.1	1.0	1.0	1.0	1.0
Angola	52.6	64.4	72.3	72.9	80.5	74.0	76.3	75.0	74.1
Benin	1.3	1.2	1.3	0.4	0.5	0.7	3.3	3.5	3.5
Botswana	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.2
Burkina Faso	14.8	13.1	16.8	25.1	27.8	24.3	23.7	24.5	31.6
Burundi	91.4	71.0	68.2	64.6	75.8	68.3	73.0	95.6	97.3
Cabo Verde	18.7	17.8	21.1	19.0	17.2	18.7	17.3	16.5	21.5
Cameroon	74.5	74.6	72.4	75.9	76.7	76.8	76.8	77.1	77.1
Cent Afr Rep	95.6	96.5	96.5	96.5	96.5	96.5	96.5	97.5	97.5
Chad	4.4	4.5	4.7	4.4	4.7	5.0	4.9	4.9	5.1
Comoros	2.2	3.2	3.2	3.2	3.2	8.8	8.0	8.1	8.1
Congo DR	99.3	99.1	98.9	99.1	99.9	100.0	100.0	99.9	98.9
Congo Rep	41.4	42.8	40.7	40.7	40.7	40.7	40.7	40.7	40.7
Cote d'Ivoire	15.2	20.6	29.6	32.8	30.2	23.1	23.6	24.2	24.9
Djibouti	0.8	1.2	1.3	0.8	0.6	35.9	35.4	46.4	63.8
Egypt	8.6	8.4	8.1	9.0	12.2	12.3	12.2	11.9	12.4
Eq Guinea	33.7	32.9	32.7	45.7	45.2	43.7	43.2	34.5	38.0
Eritrea	6.7	12.4	13.0	12.7	12.4	11.3	10.6	10.1	10.1
Eswatini	98.1	97.9	98.3	98.4	98.5	98.6	98.7	99.0	98.9
Ethiopia	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Gabon	41.6	48.9	53.9	41.1	38.1	38.1	38.1	38.1	38.1
Gambia	1.2	1.7	1.4	1.5	1.4	1.3	1.1	1.0	0.9
Ghana	43.1	40.3	37.5	40.4	36.7	34.9	36.3	36.1	39.7
Guinea	67.9	69.3	63.3	63.9	61.9	88.1	90.6	89.8	97.9
Guinea Bissau	4.4	5.8	10.6	10.6	10.3	11.8	10.5	11.5	12.3
Kenya	82.5	79.3	83.6	89.6	91.4	88.1	86.2	89.0	89.6
Lesotho	99.9	99.9	99.9	99.9	99.9	99.5	99.8	99.8	99.8
Liberia	9.4	34.1	42.4	40.8	44.0	77.2	63.4	73.0	73.7
Libya	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Madagascar	54.6	47.2	55.6	49.6	46.7	42.4	45.9	53.5	51.2
Malawi	96.8	84.3	79.8	78.1	78.1	79.0	79.0	78.9	79.0
Mali	67.1	65.2	78.3	68.0	42.9	33.0	39.4	40.1	58.7
Mauritania	17.8	15.7	21.1	18.5	18.7	17.7	15.8	23.0	28.3
Mauritius	21.8	20.0	20.7	21.7	23.9	21.5	19.2	17.6	18.2
Mayotte	4.6	5.1	5.0	7.1	7.8	12.1	12.1	12.5	12.5
Morocco	15.3	14.8	19.0	18.9	18.2	18.9	17.4	18.5	24.5
Mozambique	95.8	81.0	82.3	81.9	83.7	83.1	84.1	83.8	84.4
Namibia	89.8	91.2	90.5	90.5	86.8	85.2	87.5	90.4	91.3
Niger	2.3	2.4	3.3	5.1	4.9	6.2	10.5	12.1	6.6
Nigeria	28.6	24.6	23.0	25.4	22.7	25.4	27.2	26.0	33.2
Reunion	34.7	32.4	36.4	31.2	24.7	28.2	37.7	56.7	92.6
Rwanda	48.5	47.3	47.2	51.0	59.9	57.6	52.1	52.0	45.4
Sao Tome Prn	5.6	4.9	5.6	5.7	5.8	6.1	5.9	6.4	6.4
Senegal	2.0	4.5	8.1	8.9	12.5	20.7	16.5	14.8	11.5
Seychelles	2.3	2.3	2.7	2.1	2.8	5.2	5.5	5.2	5.6
Sierra Leone	74.3	73.8	73.4	64.9	58.1	53.6	49.7	51.8	51.1
Somalia	1.5	1.8	1.9	1.9	4.5	6.7	12.8	13.0	13.6
South Africa	2.1	2.3	2.8	3.1	4.2	4.8	6.2	8.2	23.0
South Sudan	0.4	0.5	0.6	0.7	2.7	3.7	6.7	5.8	5.8
Sudan	56.2	61.7	60.9	61.4	67.3	60.7	61.0	61.0	61.0
Tanzania	36.2	36.0	33.3	34.6	42.7	38.5	29.4	27.9	30.2
Togo	23.6	32.2	22.6	23.7	15.1	20.8	14.6	21.8	26.4
Tunisia	3.0	2.9	3.1	3.7	3.2	3.2	3.2	3.8	4.6
Uganda	98.2	93.8	94.4	97.7	98.7	97.9	99.7	98.5	98.5
Zambia	94.3	86.4	84.7	82.9	85.5	92.0	88.9	89.1	81.7
Zimbabwe	62.6	67.7	72.1	72.0	72.4	77.5	75.5	65.0	56.7

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)	2016	2017	2018	2019	2020	2021	2022	2023	2024
Asia	20.4	21.2	21.7	22.6	24.0	24.7	26.2	26.5	28.6
Afghanistan	87.7	86.8	83.7	86.8	87.5	80.5	77.9	82.9	84.9
Bangladesh	2.0	2.0	1.7	1.5	1.5	1.5	1.7	2.1	2.5
Bhutan	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Brunei Darism	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1
Cambodia	48.4	42.5	59.4	49.1	49.6	59.1	65.8	42.7	46.5
China	24.8	25.0	25.3	26.5	27.6	28.2	29.7	30.1	33.1
China HK SAR	0.1	0.3	0.3	0.3	0.5	0.7	1.0	1.0	1.0
Chinese Taipei	4.2	4.0	3.9	4.9	4.8	5.4	7.7	8.9	11.1
India	14.0	14.6	15.7	17.0	18.5	18.9	19.5	19.8	19.1
Indonesia	15.4	16.3	17.0	16.1	18.0	18.1	19.6	18.5	18.0
Japan	14.1	15.5	16.4	17.8	19.4	20.2	21.5	22.6	22.8
Kazakhstan	12.7	11.3	10.3	10.6	12.5	11.0	11.7	12.7	15.0
Korea DPR	53.6	50.7	51.5	46.4	53.5	63.3	63.1	63.4	61.9
Korea Rep	3.3	3.6	4.4	5.1	6.2	6.8	7.6	8.4	8.7
Kyrgyzstan	87.6	91.9	91.0	91.7	90.7	85.6	85.9	86.9	87.8
Lao PDR	99.2	98.5	98.2	93.6	82.6	82.3	76.6	75.5	77.5
Malaysia	13.4	17.3	16.7	17.0	18.6	21.2	20.2	19.8	21.0
Maldives	2.2	2.8	3.9	6.1	8.0	5.2	6.8	6.6	7.8
Mongolia	4.4	4.4	7.2	5.0	4.8	5.4	4.9	4.8	4.7
Myanmar	55.2	56.4	49.8	40.6	36.6	29.5	44.0	36.6	39.8
Nepal	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Pakistan	31.7	28.0	27.1	30.9	32.3	30.3	31.0	31.6	41.0
Philippines	23.5	23.9	22.7	20.2	20.6	21.2	21.4	21.6	21.6
Singapore	1.7	1.7	1.6	1.7	1.8	2.0	2.9	3.1	3.7
Sri Lanka	32.9	31.0	43.8	33.8	35.6	49.4	50.3	48.6	51.9
Tajikistan	96.3	94.4	93.2	92.8	92.8	92.8	92.8	94.2	92.3
Thailand	12.4	15.0	18.4	19.1	18.0	19.3	20.0	21.0	21.2
Timor Leste	0.7	0.6	0.5	0.4	0.0	0.0	0.0	0.0	0.0
Turkmenistan	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Uzbekistan	13.9	13.5	10.1	11.2	9.5	7.7	9.3	9.7	15.6
Viet Nam	37.2	46.3	40.9	32.1	36.4	44.9	51.9	44.8	42.3
C America + Carib	28.9	33.4	33.6	31.2	35.7	37.8	38.3	33.7	35.0
Anguilla	2.4	2.9	2.5	2.7	4.2	3.8	3.6	3.5	3.3
Antigua Barb	1.6	1.8	2.8	3.7	4.9	6.1	6.8	7.0	7.2
Aruba	15.7	14.7	19.4	19.4	21.1	20.1	19.8	18.4	14.6
Bahamas	0.6	0.6	0.6	0.7	0.9	1.0	1.2	1.4	1.6
Barbados	1.2	2.7	2.7	3.8	5.8	7.1	8.4	9.5	10.4
Belize	85.9	86.2	82.3	62.7	95.4	81.0	89.7	77.3	77.3
BES Islands	31.1	25.9	33.0	28.4	22.7	24.1	23.0	23.6	24.4
Br Virgin Is	1.4	1.7	1.9	2.0	2.0	2.2	2.3	2.3	2.3
Cayman Is	0.3	1.3	2.1	2.4	2.8	3.0	3.0	2.8	2.7
Costa Rica	98.2	99.7	98.6	99.2	99.8	100.0	99.3	95.0	89.4
Cuba	4.0	3.8	3.6	4.4	5.0	5.3	5.0	4.7	3.8
Curacao	14.1	19.7	27.9	26.7	24.2	24.1	22.4	21.5	24.3
Dominica	33.1	32.5	37.7	22.3	20.4	20.3	23.2	19.3	22.4
Dominican Rep	10.9	16.2	15.6	12.7	15.9	17.2	17.8	17.2	18.4
El Salvador	59.4	74.8	77.9	71.5	84.7	86.1	78.3	61.7	69.0
Grenada	1.2	1.5	1.5	1.6	2.0	2.0	1.7	1.7	1.6
Guadeloupe	17.6	20.5	21.4	22.2	23.4	33.8	34.8	35.4	29.6
Guatemala	62.8	71.3	65.1	62.7	76.9	73.3	79.1	68.9	62.0
Haiti	6.8	12.4	19.2	19.2	18.2	18.2	19.6	23.6	23.5
Honduras	47.7	56.4	62.1	53.4	55.2	61.4	59.5	52.1	52.1
Jamaica	8.3	11.7	12.4	12.1	13.1	12.8	12.0	10.4	10.8
Martinique	6.2	5.8	11.6	24.7	23.3	25.3	26.5	26.1	25.0
Montserrat					3.2	11.9	12.3	12.5	10.7
Nicaragua	52.1	56.0	58.9	56.8	69.9	69.2	65.7	58.7	61.2
Panama	67.7	71.4	77.2	56.5	75.6	81.7	80.1	55.5	73.0
Puerto Rico	2.7	3.4	2.6	3.7	4.0	4.6	5.6	6.8	7.9
St Barth	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.1	0.1
St Kitts Nevis	4.6	3.7	3.6	3.5	4.4	4.5	4.4	4.4	4.4
St Lucia	0.5	0.5	1.7	2.1	2.2	2.0	2.0	2.0	1.9
St Martin	1.4	0.1	0.0	0.3	0.7	0.8	0.9	0.9	0.8
St Vincent Gren	11.0	14.2	17.2	15.9	17.5	17.5	15.4	18.1	18.1
Trinidad Tobago	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Turks Caicos	0.0	0.1	0.3	0.6	0.6	1.5	1.9	2.1	2.0
US Virgin Is	1.7	1.3	2.3	2.2	2.2	2.6	2.6	2.9	2.7
Eurasia	20.5	20.0	21.8	24.5	26.0	25.1	23.5	24.0	25.3
Armenia	32.2	29.3	30.0	31.4	23.7	30.5	36.7	27.0	32.4
Azerbaijan	8.8	8.1	8.1	7.3	5.5	5.8	6.7	7.2	13.5
Georgia	80.7	80.6	82.6	76.1	74.7	81.2	79.6	76.1	80.2
Russian Fed	17.0	17.0	18.5	18.8	21.2	21.6	17.9	18.5	18.9
Türkiye	32.9	29.3	31.8	43.5	41.8	35.4	42.0	42.3	45.9

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)	2016	2017	2018	2019	2020	2021	2022	2023	2024
Europe	31.7	31.9	34.2	35.7	40.1	39.3	40.5	46.4	48.8
Albania	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Andorra	99.1	96.0	96.4	96.6	97.4	93.3	94.1	91.3	93.4
Austria	74.8	71.6	72.9	73.6	76.4	74.6	72.9	80.3	82.2
Belarus	1.2	2.2	2.0	2.5	3.5	3.4	3.2	2.9	2.9
Belgium	16.7	18.2	22.9	20.8	26.2	22.6	25.5	32.8	34.4
Bosnia Herzg	31.9	23.2	34.2	36.5	29.0	38.8	32.0	43.0	38.4
Bulgaria	15.6	13.4	20.0	16.9	18.3	21.7	19.1	25.0	29.5
Croatia	65.2	59.4	71.8	65.4	63.9	69.2	62.9	69.7	72.4
Cyprus	8.7	8.7	9.4	10.0	12.3	15.1	16.8	20.5	23.7
Czechia	11.3	11.1	10.7	11.6	12.7	12.5	12.7	14.5	16.7
Denmark	60.2	70.3	68.4	78.2	81.7	79.2	80.8	86.2	89.0
Estonia	13.0	14.1	16.1	28.1	48.9	40.0	32.0	48.8	56.5
Faroe Islands	49.9	51.1	48.8	40.4	38.7	38.1	52.2	50.3	56.6
Finland	44.2	46.7	45.7	46.4	51.9	52.9	53.6	51.9	56.1
France	17.6	16.5	19.6	19.9	23.6	22.1	24.0	26.9	27.3
Germany	29.2	33.1	34.7	39.6	43.7	39.4	43.6	53.3	56.3
Greece	27.4	25.0	30.3	33.1	36.4	40.5	42.6	48.9	47.8
Hungary	10.2	10.6	11.7	13.7	15.8	19.1	21.4	26.4	31.4
Iceland	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Ireland	24.9	29.0	33.1	38.4	42.1	36.7	38.9	44.8	46.1
Italy	37.3	35.1	39.5	39.4	41.7	40.2	35.4	44.0	49.6
Kosovo*	4.1	3.0	5.1	4.9	5.4	6.4	9.0	12.7	9.3
Latvia	54.2	72.5	52.0	49.6	63.7	63.6	75.9	77.7	73.4
Lithuania	52.4	64.5	67.2	65.9	48.5	53.7	64.1	74.5	78.3
Luxembourg	20.8	26.9	31.1	41.7	43.7	44.8	45.9	49.4	50.1
Malta	15.9	10.4	10.1	9.8	11.3	11.9	12.9	13.6	15.4
Moldova Rep	5.9	10.0	9.0	9.4	8.2	9.2	12.4	11.8	12.7
Montenegro	58.7	45.1	59.2	56.2	52.2	61.8	53.3	60.9	59.7
Netherlands	13.2	15.4	16.5	18.8	26.5	33.1	39.6	46.8	50.1
North Macedonia	36.7	23.1	35.1	22.9	27.6	30.0	27.0	32.2	39.3
Norway	97.4	97.3	97.3	97.2	98.0	98.8	97.8	97.7	97.9
Poland	13.7	14.2	12.7	15.5	17.9	17.0	21.0	27.5	30.6
Portugal	53.6	38.0	49.3	51.6	56.7	61.9	56.6	70.0	79.0
Romania	41.4	37.8	40.4	41.3	44.0	44.3	42.2	48.9	45.8
Serbia	27.6	25.1	29.2	28.0	26.8	32.9	27.9	34.6	32.2
Slovakia	24.5	23.5	21.5	23.4	23.8	22.6	21.7	22.4	23.6
Slovenia	30.7	27.2	32.0	31.3	32.5	34.3	29.9	39.7	40.4
Spain	38.1	31.9	37.9	37.0	43.2	45.8	42.0	50.3	55.9
Sweden	57.1	57.9	55.8	58.7	68.4	67.4	68.3	69.4	69.4
Switzerland	59.9	59.9	56.3	57.5	59.6	63.7	55.0	60.1	65.1
UK	24.6	29.3	33.1	37.0	43.0	39.7	41.6	46.5	50.4
Ukraine	6.0	7.7	8.6	8.3	11.4	11.6	14.6	18.7	18.2
European Union	29.8	29.6	32.0	33.7	38.0	37.0	38.3	44.6	47.1
Middle East	2.1	1.9	2.1	4.0	3.6	2.9	3.6	4.4	5.1
Bahrain	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.3	0.5
Iran IR	5.8	5.0	5.4	9.5	7.0	3.8	4.9	4.8	4.8
Iraq	4.3	2.6	2.6	6.0	5.3	4.2	2.6	1.9	1.9
Israel	2.6	2.9	3.1	4.7	6.2	7.6	8.6	11.8	13.8
Jordan	4.4	6.7	10.6	14.3	20.1	23.5	25.4	24.7	24.8
Kuwait	0.1	0.1	0.1	0.1	0.1	0.3	0.3	0.2	0.2
Lebanon	3.3	3.5	2.0	4.8	5.8	7.1	19.8	20.7	20.7
Oman	0.0	0.0	0.1	0.2	0.4	2.0	4.0	4.9	4.8
Palestine	8.2	8.6	14.6	15.4	21.5	24.9	33.9	43.2	43.2
Qatar	0.3	0.3	0.3	0.3	0.3	0.3	1.3	3.6	3.4
Saudi Arabia	0.0	0.0	0.1	0.1	0.2	0.2	0.6	1.4	2.8
Syrian AR	4.7	2.8	3.9	8.3	7.6	2.4	4.1	1.7	4.8
United Arab Em	0.2	0.6	0.9	2.6	3.8	4.2	5.0	8.7	8.8
Yemen	3.3	5.0	9.0	7.8	10.2	10.5	9.8	10.0	10.0
N America	21.1	23.0	22.6	23.3	25.5	25.9	27.2	26.6	27.4
Canada	64.9	66.6	65.9	65.9	67.0	67.4	68.7	65.8	65.5
Greenland	75.3	71.2	72.6	75.0	74.3	77.0	77.9	76.9	77.0
Mexico	15.2	16.0	15.9	17.1	21.2	24.6	23.9	18.5	19.0
USA	14.7	16.8	16.7	17.5	19.4	19.8	21.3	21.6	22.9

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)	2016	2017	2018	2019	2020	2021	2022	2023	2024
Oceania	24.6	25.2	26.6	28.6	30.6	34.2	38.2	40.6	41.3
Amer Samoa	3.6	4.6	4.8	4.3	3.7	3.1	2.5	1.9	1.6
Australia	14.5	15.6	17.0	19.6	22.5	26.5	30.7	33.5	34.7
Cook Is	13.6	16.0	24.2	25.1	26.2	21.1	19.1	21.5	15.7
Fiji	53.8	51.3	58.4	54.5	59.8	60.1	58.3	52.1	54.1
Fr Polynesia	25.9	25.4	24.4	23.8	25.4	23.3	29.3	25.8	31.5
Guam	3.8	3.6	4.3	4.5	4.7	4.8	8.3	8.7	8.1
Kiribati	9.0	9.9	10.4	10.4	10.4	10.4	10.3	18.3	16.0
Marshall Is	2.1	2.4	2.9	2.9	2.9	2.8	2.9	3.1	5.1
Micronesia	9.6	9.6	12.3	13.1	16.9	13.5	13.3	13.5	13.5
Nauru	0.8	3.1	3.1	3.8	6.1	8.6	8.8	8.8	8.8
New Caledon	9.2	13.5	11.7	13.7	15.6	22.5	25.7	23.5	34.6
New Zealand	84.6	81.5	83.7	82.1	80.5	81.4	86.6	87.6	84.9
Niue	13.8	13.8	13.8	13.8	13.8	13.8	10.5	10.5	11.5
Palau	3.8	3.9	4.1	3.5	3.9	5.9	6.1	24.3	24.3
Papua N Guin	34.8	33.4	32.3	41.9	39.9	40.0	28.8	33.5	33.5
Samoa	31.4	36.1	42.6	40.6	45.9	41.8	30.9	34.3	29.3
Solomon Is	7.5	7.8	6.4	6.7	6.6	7.1	9.2	9.7	9.8
Tokelau	94.5	94.5	94.0	94.2	94.2	94.2	94.2	94.2	94.1
Tonga	8.4	9.3	10.9	12.7	14.1	12.0	12.6	14.9	14.9
Tuvalu	23.6	23.3	19.2	19.1	15.8	15.3	16.7	17.9	17.9
Vanuatu	21.0	20.7	23.4	27.3	28.4	25.2	22.7	22.7	22.7
S America	65.9	68.3	70.7	71.5	72.4	69.4	76.4	77.8	77.2
Argentina	27.9	30.5	31.0	32.5	31.0	29.1	35.8	41.7	39.3
Bolivia	20.6	25.4	29.8	36.4	35.7	38.3	36.6	30.0	33.3
Brazil	79.7	78.4	81.6	81.4	83.2	77.3	87.7	89.0	88.0
Chile	43.4	43.9	46.3	46.6	48.7	48.9	55.6	63.7	68.4
Colombia	64.6	77.1	73.6	69.2	64.6	73.7	74.8	67.5	62.3
Ecuador	60.2	73.7	72.6	78.1	79.7	81.0	76.1	73.4	68.0
Falklands Malv	32.6	32.0	30.7	29.3	23.9	24.4	25.2	24.8	24.8
Fr Guiana	54.7	67.8	64.5	49.7	52.3	69.8	72.0	65.5	44.4
Guyana	4.1	3.5	2.8	2.9	3.1	3.1	2.9	3.3	3.3
Paraguay	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Peru	47.3	59.0	61.2	60.8	64.3	61.6	55.7	53.3	59.6
South Georgia	93.2	95.9	98.6	99.0	99.0	99.0	99.0	99.0	99.0
Suriname	42.5	46.2	50.3	51.7	49.5	59.5	64.5	61.2	61.3
Uruguay	94.8	96.3	95.3	97.2	93.0	84.3	90.3	91.5	98.4
Venezuela	54.3	63.6	70.8	80.4	87.7	90.2	89.7	89.7	89.2

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

(2023 USD million)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
World	17 550.29	33 482.13	27 388.72	21 364.99	17 228.08	15 500.00	16 187.46	24 729.37	25 194.19	25 590.09
Africa	5 465.60	12 248.21	7 276.45	6 736.19	5 218.22	3 316.40	5 387.55	7 510.97	8 193.59	6 138.88
Algeria	0.77	0.15	0.01	0.05	0.06	0.01	0.10	6.91	8.16	19.67
Angola	0.01	5 145.90	4.61	0.13	0.06	0.07	0.00	83.86	62.51	787.47
Benin	241.75	67.80	307.80	2.31	4.37	56.02	47.66	103.54	35.18	38.07
Botswana		0.01	0.02	0.01			42.39	6.42	77.54	105.87
Burkina Faso	0.19	32.70	23.25	39.29	55.41	162.55	160.63	8.02	53.00	3.68
Burundi	3.38	0.06	19.27	11.95	100.52	121.45			1.16	219.49
Cabo Verde	3.59	8.72	0.12		1.38	2.80	12.08	1.22	121.83	0.11
Cameroon	96.68	86.95	179.57	1 129.11	8.87	48.24	7.54	7.95	163.68	0.45
Cent Afr Rep		0.00	0.03	4.16	55.67	11.05		82.64	0.66	0.59
Chad	0.02	46.14	0.01		23.52	13.76	22.59	262.85	0.81	39.04
Comoros	1.07	0.01	12.44	0.15	18.56	38.96	0.04	36.30	5.34	22.50
Congo DR	0.68	27.00	48.72	0.09	1.05	0.66	43.01	7.44	873.95	7.50
Congo Rep		0.09		23.01	0.10	0.33	0.56	2.34	8.89	90.10
Cote d Ivoire	158.58	38.96	42.58	64.39	325.92	76.48	429.78	360.25	138.06	138.58
Djibouti	0.77	1.18	27.97	33.95	30.45	1.27	0.30	74.99	3.48	0.37
Egypt	283.55	317.81	2 185.62	138.90	380.45	260.56	161.15	1 390.37	300.96	754.27
Eq Guinea	0.02	79.21			24.84					0.24
Eritrea	16.05		95.55	0.03		0.00		0.26	48.41	
Eswatini	1.16				14.74	0.08	0.20	0.06	0.30	0.31
Ethiopia	80.26	522.19	559.90	75.11	60.71	4.26	418.15	1.42	85.68	490.86
Gabon	14.55	45.45	0.14	3.15			79.10			
Gambia			28.45	67.12	28.13	33.12	68.65	27.80	6.50	13.89
Ghana	66.86	565.04	8.95	32.45	11.72	31.52	18.50	289.19	37.77	180.80
Guinea	62.59	157.16	0.14	1 185.00	8.13	0.01	204.67	0.03	2.70	95.25
Guinea Bissau		0.46	3.75	5.04	0.27	0.01			3.29	34.25
Kenya	300.56	717.00	520.38	302.11	218.25	40.40	116.56	186.88	169.22	114.99
Lesotho	0.04	0.00		0.93	15.07	112.20	0.43	28.96	0.04	10.66
Liberia	292.67	12.06	52.03	7.70	41.47	29.34	3.62	108.74	0.43	39.17
Libya						0.01	5.67			
Madagascar	5.37	25.40	30.89	247.90	49.26	31.25	104.96	34.63	561.76	29.66
Malawi	55.82	0.39	4.69	20.18	128.30	12.66	16.54	83.59	16.18	244.85
Mali	10.51	68.17	29.93	22.74	52.26	66.04	9.55	14.47	157.54	5.46
Mauritania	0.13	199.04	20.52	0.76	13.60	30.75	0.03	13.15	1.15	40.94
Mauritius	10.57	32.83	0.38	20.33	14.67	1.20			18.97	0.29
Morocco	398.82	467.61	132.28	990.60	704.52	273.96	1.38	73.03	311.72	327.44
Mozambique	5.78	35.58	89.21	48.21	207.77	216.58	104.37	128.42	21.73	151.37
Namibia	34.00	12.99	40.74	45.92	0.02	0.00	24.53	9.22	4.92	289.24
Niger		1.31	92.33	66.71	119.67	141.46	261.69	5.03	26.86	1.25
Nigeria	72.58	71.10	165.75	112.97	211.73	36.68	35.00	74.52	872.83	32.92
Reunion	1.89									
Rwanda		46.32	90.22	17.72	1.77	292.20	92.28	143.69	335.36	99.43
Saint Helena	1.63									
Sao Tome Prn	0.40	0.35	2.04			15.03	2.26	14.52	38.00	
Senegal	43.13	700.67	55.66	110.04	73.74	117.54	49.79	89.66	103.41	77.93
Seychelles	0.04	0.55	1.04							
Sierra Leone		49.35	0.45	0.28	7.97	8.14	15.46	109.23	8.02	18.51
Somalia	0.34	0.91	0.02	3.35	24.36	0.23	152.60	14.68	131.41	25.12
South Africa	1 319.57	1 105.87	29.88	949.18	757.53	353.64	335.58	1 235.62	1 065.43	437.00
South Sudan	0.08	0.03	0.33	0.32	0.12	0.07	0.20	0.03	27.07	0.54
Sudan	0.04	0.05	0.01	2.75	229.49	20.02	0.30	0.01	0.22	4.65
Tanzania	43.94	169.78	29.25	24.29	7.05	13.38	341.49	90.06	586.77	230.09
Togo	10.02	66.63	0.00	19.80	1.28	18.30	37.95	67.23	25.32	198.65
Tunisia	10.10	52.03	5.14	21.08	91.02	22.72	21.23	62.70	341.92	38.40
Uganda	1 557.17	219.06	108.22	567.46	172.94	24.52	10.62	584.19	234.37	62.51
Zambia	86.97	123.21	1 806.06	59.42	87.00	14.71	11.70	29.20	51.00	144.63
Zimbabwe		0.04	5.83	0.01	0.29	0.07	0.01	3.44	1.21	21.43
Unspecified Africa	170.88	926.88	414.33	258.02	832.13	560.07	1 914.66	1 552.23	1 040.88	448.35

Total renewable energy

Total énergies renouvelables

Total energías renovables

(2023 USD million)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Asia	4 128.42	8 658.97	8 405.55	7 851.48	5 142.43	5 242.22	5 696.69	4 586.09	9 482.17	6 860.96
Afghanistan	5.56	0.92	56.12	76.41	4.96	53.74	0.01	66.10	20.88	1.88
Bangladesh	9.30	467.88	265.06	269.05	516.78	202.92	339.00	120.50	428.55	24.71
Bhutan	140.34	0.06	0.88	0.16	0.79	2.16	0.81	20.19	12.21	237.34
Cambodia	49.99	198.12	56.31	61.96	10.12	207.97	31.88	13.31	22.72	2.26
China	102.40	1 894.15	392.59	907.21	225.60	123.67	102.89	55.53	86.55	297.95
Chinese Taipei									1 554.73	
India	1 238.08	2 661.82	2 312.10	1 913.71	1 642.64	1 415.62	1 408.92	1 500.49	3 309.48	1 676.77
Indonesia	422.14	380.02	336.01	1 130.71	311.42	448.21	1 010.72	392.87	675.19	311.20
Kazakhstan	53.93	51.21	167.06	255.09	782.20	30.27	45.85	0.45	99.95	525.67
Korea DPR	0.00	0.38	2.68	0.73	1.13	0.00				
Kyrgyzstan	0.03	42.68	1.38	13.75	197.60	0.07		41.52	105.71	18.62
Lao PDR	79.53	779.01	2 299.54	404.98	2.32	0.49	0.04	157.86	213.81	50.33
Malaysia	0.25	1.13	0.06	0.04	0.02	4.25	0.00	0.49	0.30	5.22
Maldives	6.91	82.31	0.02	6.37	4.47	30.50	27.79	0.69	70.94	0.77
Mongolia	0.74	202.54	93.21	129.52	11.95	142.50	2.39	74.68	271.97	50.25
Myanmar	63.84	6.40	114.63	28.07	55.15	66.82	11.05	18.49	2.72	0.50
Nepal	47.75	32.60	11.94	44.18	409.50	313.38	109.16	41.20	30.48	421.46
Pakistan	1 524.01	1 179.45	1 292.96	727.53	308.81	1 044.59	1 238.59	108.91	623.39	1 121.68
Philippines	25.21	122.58	1.76	99.97	4.18	7.82	50.24	10.21	218.93	55.77
Singapore							113.56			
Sri Lanka	0.49	123.67	234.54	1 241.37	75.78	0.60	1.08	17.69	4.93	198.37
Tajikistan	126.92	0.10	526.69	19.14	119.03	93.58	87.97	47.46	150.12	525.10
Thailand	61.65	0.43	1.73	329.86	110.15	59.12	23.89	310.24	4.68	423.51
Timor Leste	0.00	1.17			0.01	1.71	2.73	0.18	0.23	0.35
Turkmenistan	0.12	0.09	0.07	0.00	0.04		0.03	2.49		0.98
Uzbekistan	0.30	0.76	62.50	13.23	29.32	363.55	103.19	802.07	1 235.79	528.81
Viet Nam	68.63	336.62	30.33	117.82	248.77	465.67	556.37	233.92	245.97	209.93
Unspecified Asia	100.14	92.83	144.81	29.75	66.19	159.83	278.34	546.47	63.65	155.14
Unspecified C and S Asia	0.16	0.06	0.58	30.87	3.51	3.18	150.18	2.11	28.30	16.40
C America + Carib	1 997.87	1 552.77	2 012.39	645.00	691.51	1 286.24	502.23	1 242.26	1 092.07	836.25
Antigua Barb	7.63		21.76			7.06				
Bahamas			0.02	0.12	0.63	205.07	2.44		0.25	
Barbados	0.09	9.89		0.05	37.92					
Belize	0.01	1.97	0.01	17.85	0.29	0.02	3.05	0.03	77.00	7.42
Costa Rica	919.48	194.54	209.32	31.11	0.76	324.02	17.22	32.67	69.77	0.87
Cuba	81.62	198.37	225.80	7.75	7.54	3.25	0.13	2.28	0.99	1.70
Dominica			14.76	2.50	19.50				0.02	33.16
Dominican Rep	0.53	91.45	93.45	0.44	67.17	1.12	170.50	92.38	218.10	36.35
El Salvador	85.47	229.32	605.86	71.59	0.99	0.82	21.76	105.79	234.84	29.55
Grenada	1.97		0.79		0.23		3.41		0.01	9.00
Guatemala	0.02	16.29	1.01	27.78	43.37	32.70	13.59	5.06	6.10	2.74
Haiti	54.40	9.67	27.44	0.82	17.67	23.15	19.76	2.98	6.76	34.90
Honduras	405.32	83.45	454.75	115.19	1.07	21.76	16.32	420.17	15.37	355.99
Jamaica	103.03	19.72	92.76	78.77	0.20	3.24	14.91	0.37	12.32	0.56
Montserrat	2.31	9.20	0.16							
Nicaragua	121.11	196.34	146.77	22.01	8.69	194.17	98.64	28.65	1.27	0.93
Panama	57.31	325.15	26.72	0.39	100.11	287.37	0.03	0.36	202.90	235.87
St Lucia	0.01		10.87				6.95	0.70		1.92
St Vincent Gren		35.39	3.44							
Trinidad Tobago						0.27		0.37		
Unspecified Cent Am Cari	157.57	132.01	76.70	268.61	385.37	182.24	113.52	550.45	246.39	85.30
Eurasia	578.02	1 869.71	487.37	1 307.63	577.60	426.82	467.82	576.68	1 892.60	2 191.52
Armenia	25.88	137.64	1.78	30.86	62.14	28.36	54.57	1.24	22.11	132.56
Azerbaijan	86.40	0.01	0.02		0.01	0.00	0.01	162.76	215.17	409.77
Georgia	21.45	101.06	33.94	51.82	154.63	0.80	5.32	68.09	79.63	283.99
Türkiye	444.28	1 630.99	451.63	1 224.95	360.82	397.65	407.93	344.60	1 575.69	1 365.19

Total renewable energy

Total énergies renouvelables

Total energías renovables

(2023 USD million)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Europe	199.69	494.71	1 153.35	391.02	1 168.51	401.51	325.91	392.78	1 213.34	1 728.02
Albania	27.20		0.13		4.97		59.55	2.30	78.09	3.80
Belarus	12.38	0.15	0.14	17.40	173.70	0.39	0.00			
Bosnia Herzg	7.46	4.15	80.77	1.72	23.02	4.09	0.55	1.05	83.46	36.48
North Macedonia	0.08	0.01	5.27	9.04	0.00	23.66	12.21	29.84	262.00	64.85
Kosovo	27.73	0.00	0.81	0.68	95.20	0.02	0.07	69.73	36.54	69.90
Moldova Rep	0.60	0.29	26.00	0.11	0.25	0.10	0.92	26.08	15.30	169.89
Montenegro	92.99	5.24	0.01	0.03	99.36	18.73	0.05	14.62	122.07	91.45
Serbia	5.00	20.42	505.62	109.40	14.50	11.93	26.62	94.68	300.34	632.42
Ukraine	26.24	273.65	51.54	118.53	373.43	45.45	199.41	68.51	215.10	646.54
EU (27)		183.22	481.10	127.43	381.72	286.97	14.21	57.34	81.10	
Unspecified Europe		7.57	1.97	6.68	2.34	10.18	12.29	28.63	19.34	12.68
Middle East	365.51	906.83	597.24	269.05	136.75	185.51	194.34	3 776.63	240.14	1 253.96
Iran IR	0.17	0.07	0.32	3.77		0.01	0.00	0.06		
Iraq		290.93	123.47			0.44	1.09	4.66	0.06	
Jordan	257.78	567.49	440.27	132.05	84.02	39.99	25.41	58.41	79.14	55.65
Lebanon	40.13	26.40	0.04	6.96	0.40	0.19	2.26	27.84	29.97	250.71
Palestine	25.60	9.40	10.70	48.28	18.45	13.14	25.84	22.06	11.64	2.01
Qatar						130.43				
Saudi Arabia							114.41	755.71		297.73
Syrian AR				0.06				0.62	0.06	0.02
United Arab Em								2 760.26	117.75	624.94
Yemen			0.01	62.14	1.33	1.16	8.43	136.26	0.01	14.49
Unspecified Mid East	41.83	12.55	22.44	15.80	32.55	0.15	16.89	10.76	1.50	8.40
N America	235.44	515.39	559.44	333.96	581.82	585.30	334.87	1.53	18.95	174.19
Mexico	235.44	515.39	559.44	333.96	581.82	585.30	334.87	1.53	18.95	174.19
Oceania	99.52	76.96	426.65	87.32	161.50	22.34	19.43	94.82	68.58	427.01
Cook Is	20.14	4.96								
Fiji	1.64	0.20	0.05	5.47	0.13	4.58	0.52	0.03	8.08	7.47
Kiribati	0.05	0.00		0.94		13.71		0.06	0.14	23.47
Marshall Is	4.61	0.21	45.57				2.72	0.03	0.46	78.06
Micronesia	4.52	0.01	1.29	11.16	30.40	0.02	0.10	2.65	1.02	12.36
Nauru	9.79	3.30	2.89		24.47	0.14	0.05			
New Caledon			64.57							
Niue	0.01	0.27	8.18		0.11			0.03	0.15	9.04
Palau	5.77	0.00			1.25	0.14	0.05	37.28	4.09	0.61
Papua N Guin	9.28	36.08	70.41	0.15	0.14	0.10	0.17	10.22	19.11	211.55
Samoa	0.03	0.00	2.28				0.01	0.02	1.19	6.79
Solomon Is	7.56	7.93	179.96	23.63	51.54	1.00	1.73	0.02	2.74	17.09
Tokelau					4.32					2.42
Tonga	15.88	3.19	22.61	41.26	16.37	2.40	2.33	10.77	0.04	12.60
Tuvalu	9.55		0.44	0.44	6.85	0.05	3.05	0.10		7.86
Vanuatu	8.08		19.72	2.00	1.03	0.06	8.03	29.72	4.34	1.39
Unspecified Oceania	2.61	20.81	9.11	2.27	24.89	0.14	0.67	3.89	27.23	36.29
S America	4 163.60	6 190.32	5 723.39	2 896.99	2 590.86	3 384.66	2 640.79	4 832.70	2 105.49	4 892.34
Argentina	126.44	279.32	534.74	554.78	543.39	497.19	2.98	273.41	333.76	1174.70
Bolivia	2.08	1 201.96	560.40	91.13	0.88	3.43	0.03	3.79	278.45	38.78
Brazil	3 348.48	2 336.92	3 930.82	1 718.85	1 943.76	2 288.31	2 322.00	3 071.17	1 096.50	1 053.58
Chile	126.13	363.05	232.87			1.04	38.96	382.87	206.25	632.80
Colombia	25.22	1 624.46	207.67	160.76	3.43	54.19	65.04	290.67	54.64	381.19
Ecuador	149.80	190.79	41.71	28.21	8.84	76.66	5.86	96.42	131.39	1164.36
Fr Guiana							30.10			
Guyana	1.61			38.46	16.27	1.66	3.08	87.34	0.08	0.24
Paraguay		0.41		227.52	47.83	432.66	63.78	104.81	0.92	0.69
Peru	95.81	115.41	194.80	76.85	1.21	26.28	108.36	428.20	3.01	286.03
Suriname			0.01		25.03	3.24	0.56	0.34		12.94
Uruguay	230.04	78.00	20.36		0.22			93.68	0.50	147.02
Venezuela	57.99			0.44			0.04			
Unspecified countries	258.90	959.56	746.84	541.61	958.73	648.83	562.37	1 644.48	887.27	978.64
Multilateral	57.73	8.71	0.07	304.74	0.17	0.17	55.46	70.42		108.33

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

Renewable hydropower

Hydroélectricité renouvelable

Hidroeléctrica renovable

(2023 USD million)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
World	4 835.13	10 253.19	6 968.07	5 915.12	1 548.21	2 113.38	2 697.63	1 676.94	3 157.49	4 114.22
Africa	2 301.11	5 675.05	2 092.76	3 116.12	690.01	617.04	800.43	820.22	890.64	1076.37
Angola		4 494.57						41.92		786.69
Benin	221.49	66.83	2.46	1.03						
Burkina Faso			2.56	1.85						
Burundi			19.19		87.68				1.00	59.40
Cameroon		0.52	179.56	1 083.05	7.02	4.78	6.94	6.98	0.00	
Cent Afr Rep				1.09		4.09				
Comoros			12.41							
Congo DR		26.86	43.49				5.07			0.21
Cote d Ivoire	0.94	32.17	30.09		300.53		76.97		3.58	
Djibouti								0.56		
Egypt					0.00			29.84	16.22	
Ethiopia	11.87	272.11	0.01		0.00	1.43				88.44
Gabon				3.14			79.10			
Gambia				0.09						
Ghana	63.40	0.92	0.92	3.68			15.59	0.02	0.25	
Guinea	1.27			1184.49			204.66			
Guinea Bissau		0.46								
Kenya	50.43	0.12	1.33		23.71		0.24	0.06	0.03	6.66
Lesotho						1.73		10.46		
Liberia	235.99	2.27	46.06	7.53	3.92	9.49	0.02			
Madagascar		0.76		242.42	46.76		99.28	8.11	294.72	1.83
Malawi	54.90		3.73	19.38	7.58	0.59	1.24	47.58	13.71	
Mali				11.92						
Mauritania		0.30								
Morocco	52.66					184.41			0.49	
Mozambique	0.33				9.34			113.88		51.16
Niger					72.94	113.33				
Nigeria			0.10							19.57
Reunion	1.89									
Rwanda		28.85	5.65			261.50	0.99	19.32	5.99	
Sao Tome Prn						15.03	0.02			
Senegal			6.79	1.24			0.10	0.00	0.03	
Sierra Leone		0.25	0.45	0.27	0.11	6.48				
South Africa		545.70								
Tanzania	0.13	0.12	0.79	0.31	0.63		124.29		279.49	
Togo		66.58		19.10						
Tunisia										0.01
Uganda	1 523.95	101.55	104.24	518.73	77.74	0.53	0.53	11.15	213.27	38.74
Zambia	81.60	0.12	1 631.10		51.00	13.67		17.18	0.35	21.73
Zimbabwe							0.00	0.18	0.17	
Unspecified Africa	0.25	33.98	1.81	16.78	1.04		185.39	512.95	61.34	1.92
Asia	1 768.34	1 663.23	4 130.17	2 243.76	686.47	1 295.62	1 428.18	492.57	1 782.01	1 880.18
Afghanistan					0.02					
Bangladesh					0.00					
Bhutan	140.16			0.13	0.76				12.14	48.93
Cambodia	2.12		47.47							0.05
China		0.03	0.27	82.30						
India		100.99	26.86	262.82	46.27	249.49	11.40	94.48	609.14	0.41
Indonesia			116.98	442.42		46.16	2.34	307.67	278.59	
Kazakhstan										284.50
Kyrgyzstan	0.03	42.67	1.25		95.87	0.07		0.04	81.15	18.46
Lao PDR	79.20	655.52	2 292.74	403.84	0.11	0.44				39.47
Malaysia									0.29	
Maldives		82.29								
Mongolia		0.44						0.05	253.19	
Myanmar	0.65	2.18	89.19	0.58	0.81	42.80	6.67			
Nepal	15.26	0.30	1.66	14.10	358.27	42.70	76.22	14.63	17.46	1.01
Pakistan	1 345.48	777.03	1 032.79	0.25	61.73	660.95	1 049.31	44.26	397.29	926.87
Philippines	0.22	0.36					8.73			
Sri Lanka				1 008.07						
Tajikistan	126.92	0.03	455.04		94.74	45.79	54.76	30.87	130.81	525.01
Thailand									1.03	0.05
Uzbekistan		0.58	62.34	12.20	27.90	131.46	0.06			34.97
Viet Nam	57.62		2.51		0.00	46.17	218.41			0.05
Unspecified Asia	0.69	0.80	1.07	17.07		29.58	0.09	0.52	0.06	0.39
Unspecified C and S Asia							0.20	0.05	0.85	
C America + Carib	201.36	33.89	200.59	32.21	0.75	19.61	1.67	267.44	211.42	338.35
Cuba		33.89			0.03					
Dominican Rep					0.16				59.23	
El Salvador	19.01		200.59					104.81		
Guatemala					0.00	0.18		3.84	0.97	
Haiti	34.41			0.04			1.01			
Honduras	147.94				0.13	19.43	0.67	157.22		293.82
Jamaica					0.00					
Nicaragua									0.81	
Panama										44.53
Unspecified Cent Am Carib				32.18	0.42			1.57	150.40	

Renewable hydropower

Hydroélectricité renouvelable

Hidroeléctrica renovable

(2023 USD million)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Eurasia	109.47	82.20	30.91	11.54	0.03	9.74	3.05	2.29	99.92	33.03
Armenia	15.57	81.62	1.59							
Azerbaijan	86.40									
Georgia	7.50	0.57	29.32	11.54	0.03		3.05	2.29	30.28	33.03
Türkiye		0.01				9.74			69.64	
Europe	27.20	273.23	29.42	6.26	19.13	28.50	138.74	21.06	162.09	219.16
Albania	27.20						48.71	2.30		
Bosnia Herzg		0.03	0.01		19.13				81.40	
North Macedonia								1.76	0.24	
Kosovo			0.81	0.66						0.51
Montenegro						18.46				41.87
Serbia		11.64	0.01					17.00	80.44	70.92
Ukraine		261.56	28.59				90.03			105.86
Unspecified Europe				5.59		10.03				
Middle East	2.41		123.47							
Iraq			123.47							
Lebanon	2.41									
N America				5.00			236.26			
Mexico				5.00			236.26			
Oceania	13.90		175.11	5.19	52.26	0.63	1.01	34.59	4.78	25.35
Fiji					0.00		0.51		0.32	4.34
Micronesia								1.47		2.94
Nauru	5.64									
Papua N Guin					0.05	0.03	0.02	3.79	0.01	14.33
Samoa										2.83
Solomon Is	0.20		169.42	5.13	51.16	0.60			0.24	
Vanuatu	8.06		5.68	0.06	0.05		0.49	29.20	4.21	0.68
Unspecified Oceania					1.00			0.13		0.23
S America	411.32	2 525.56	185.53	491.55	95.31	111.89	0.57	35.27	6.40	541.78
Argentina		17.46								
Bolivia	1.24	1 091.40				0.01				
Brazil	314.16	939.57	71.50	345.63	77.46	57.35		2.48	6.39	511.87
Colombia		465.50			0.00	53.97				29.91
Ecuador	25.34	11.64	30.26							
Guyana					16.27					
Paraguay				145.48	0.50					
Peru	70.19		83.77		1.08	0.56	0.53	1.34	0.01	
Uruguay								31.44		
Venezuela	0.39			0.44			0.04			
Unspecified countries	0.03	0.04	0.11	3.48	4.25	30.36	87.71	3.51	0.25	

Wind energy

Énergie éolienne

Energía eólica

(2023 USD million)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
World	3 472.06	2 762.33	4 793.71	1 893.99	3 019.89	1 068.26	1 767.51	2 626.76	3 125.49	1 612.77
Africa	100.33	971.12	443.21	210.99	583.19	234.22	98.16	453.86	108.40	382.55
Algeria							0.10			
Angola		20.37								
Cabo Verde		8.21								
Cameroon		0.06								
Comoros								0.01		0.00
Djibouti				0.11	25.25			35.87		
Egypt	97.96	0.01	161.99	112.78	131.54	141.38		348.63	68.81	353.49
Ethiopia		4.63	235.56	1.39	56.16		22.70	0.08	20.76	0.24
Ghana		1.15		0.81						
Kenya	2.30	17.10	15.49	59.77	0.05		0.04	0.27		
Madagascar			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Malawi					3.34					1.30
Mali							0.29			
Mauritania		134.79	20.52							
Morocco		174.62			294.49	87.63		53.69	0.91	
Mozambique				1.27	9.34	3.63		0.08		0.14
Namibia			8.37							
Niger									0.35	1.20
Nigeria				0.06						
Senegal		610.12		31.13		0.02	0.65			
Somalia					0.07				8.04	
South Africa	0.07					0.20	43.58	15.21		
Tanzania					0.32	0.92				0.78
Togo									0.00	
Tunisia						0.44			1.03	
Zambia			1.29							
Unspecified Africa		0.07		3.68	62.63		30.80		8.50	25.40
Asia	377.22	739.93	647.07	774.82	547.57	167.91	262.18	820.43	2 440.69	229.55
Bangladesh			66.05			0.11				
Bhutan						0.27	0.41			
China	0.10	345.10	68.76	331.04	0.09	0.36				
Chinese Taipei									1 554.73	
India	112.34	71.56	18.82	398.70	97.18	54.89	76.30	14.65	366.15	97.95
Indonesia	0.20	149.36	64.20		0.28	30.55	1.53	2.81	1.05	
Kazakhstan					176.68		45.61		99.45	35.23
Kyrgyzstan									0.08	
Lao PDR								157.22	160.00	
Maldives									2.91	
Mongolia		53.04	13.73	44.56		26.98				
Myanmar					0.17	0.46				
Pakistan	178.20	87.28	175.52		157.23	10.05	39.62	8.20		
Philippines	23.04							0.67		44.53
Sri Lanka	0.06	33.56	227.95							
Tajikistan					6.70					
Thailand	61.05				109.24	33.30				0.02
Turkmenistan										0.73
Uzbekistan								610.29	256.32	
Viet Nam	2.18	0.04	1.16	0.37		10.95	88.18	26.20		
Unspecified Asia	0.06		10.88	0.15			0.07	0.40		51.04
Unspecified C and S Asia							10.48			0.05
C America + Carib	217.80	39.87	256.84	15.07	47.26	0.42	33.30			24.60
Antigua Barb			17.10							
Costa Rica	175.08	28.23								
Cuba			170.19		0.00					
Dominican Rep			45.06		3.89	0.30	27.51			0.01
Guatemala					43.37					
Haiti							5.80			
Honduras			23.45							
Jamaica	42.72		1.05	0.06						
Nicaragua						0.13				
Panama		11.64								
Unspecified Cent Am Carib				15.01						24.59

Wind energy Énergie éolienne Energía eólica

(2023 USD million)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Eurasia	13.82	43.24	21.86	71.16	0.11	0.06		50.51	387.22	468.81
Armenia										0.20
Azerbaijan								0.00	210.69	
Georgia	13.82			0.06	0.11	0.06		4.00		126.79
Türkiye		43.24	21.86	71.10				46.51	176.54	341.83
Europe	33.95		414.73	30.76	127.52		14.85	30.71	61.63	171.07
Belarus	12.36									
Bosnia Herzg			79.42							
North Macedonia							12.14			
Kosovo										4.89
Moldova Rep					0.06					
Montenegro	21.58								61.63	
Serbia			335.31	30.76	13.25		2.72	30.71		47.78
Ukraine					114.21					118.39
Middle East		57.02	64.18	59.46	1.83	0.83			15.00	297.73
Iran IR			0.32							
Jordan		57.02	63.82	59.43	1.83				15.00	
Palestine			0.03	0.03		0.83				
Saudi Arabia										297.73
N America	0.01			5.00	16.12					0.50
Mexico	0.01			5.00	16.12					0.50
Oceania			48.02		0.17			0.02		1.86
Marshall Is										1.86
New Caledon			31.67							
Tonga			15.79							
Unspecified Oceania			0.56		0.17			0.02		
S America	2 728.93	909.83	2 897.80	726.72	1 684.46	660.94	1 359.00	1 271.09	112.54	29.36
Argentina			110.37	146.23	436.60	2.96	1.95	10.87	96.52	
Bolivia		0.11	82.76	0.25	0.22					
Brazil	2 537.85	909.71	2 704.67	558.35	1 247.64	657.98	1 270.53	835.41	16.02	
Colombia							0.05			29.36
Peru	25.21			21.88			86.47	424.81		
Uruguay	165.88									
Unspecified countries		1.32			11.67	3.88		0.14		6.74

Solar energy
Énergie solaire
Energía solar

(2023 USD million)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
World	2 565.16	11 625.15	4 962.57	4 476.27	3 397.97	3 750.61	5 675.02	7 721.18	11 010.56	7 551.07
Africa	1 497.03	2 571.75	2 040.35	1 632.89	1 988.63	983.91	1 962.15	2 805.74	5 040.96	2 579.47
Algeria	0.16	0.14			0.04	0.00	0.00		0.03	0.03
Angola		43.81		0.12	0.06	0.03		41.92	62.50	0.21
Benin	7.65	0.35	217.09	0.94	0.00	0.02	27.93	63.65	23.45	17.27
Botswana							42.39	1.57	77.50	19.57
Burkina Faso	0.02	32.66	15.93	27.89	38.38	162.19	96.76	6.42	52.48	0.02
Burundi	0.75			11.95	0.22	101.87			0.16	156.17
Cabo Verde							7.12			0.09
Cameroon	94.54	86.37	0.02	33.05	0.78	39.90	0.56	0.86	146.71	0.38
Cent Afr Rep				3.06	55.67	6.96		82.64	0.66	0.59
Chad		46.14	0.00		23.52	13.76	22.54	167.00	0.81	39.04
Comoros				0.15	17.79	18.19	0.01	28.94		22.50
Congo DR	0.01	0.10		0.01	0.76	0.06	21.49	2.67	818.19	0.58
Congo Rep		0.09		0.04			0.03		8.89	90.04
Cote d'Ivoire		6.01	12.49	29.18	12.23	27.03	1.22	187.11	44.82	44.59
Djibouti				0.01	1.89	0.07		33.43	1.89	0.07
Egypt	51.51	304.53	1 211.63	22.01	38.23	25.04	71.63	375.33		163.43
Eritrea	16.05					0.00		0.26	48.41	
Eswatini	1.16				1.63	0.03	0.20	0.06	0.28	
Ethiopia	0.05	0.75	0.32	12.36	2.17	0.06	394.59	0.69	1.63	281.70
Gabon	14.51	45.42		0.02						
Gambia				22.45	11.68	33.06	0.01	27.75	0.18	3.25
Ghana	1.46	561.21	7.56	0.04	2.80	18.78	0.05	130.88	5.41	180.50
Guinea		157.13	0.04	0.06	7.80		0.01	0.03		0.07
Guinea Bissau				5.04					0.23	34.25
Kenya	153.67	224.80	96.09	78.45	129.93	38.28	19.18	119.91	102.91	15.22
Lesotho				0.93	15.06	73.78		1.14		
Liberia	0.05	0.12				0.35	3.60	11.09	0.17	39.16
Libya						0.01	0.25			
Madagascar	0.70	10.65	1.00	0.12	0.08	3.40	3.11	21.81	256.06	0.45
Malawi			0.12	0.02	116.00	10.50	13.18	29.89	0.44	234.03
Mali		67.02	23.81	2.89	49.93	0.59	0.77	3.89	157.43	5.46
Mauritania	0.13	5.75		0.74	8.70	0.12	0.03	13.15	1.15	39.63
Mauritius	0.02				11.12					
Morocco	192.43	202.36	88.07	919.10	391.24	1.85	0.59	0.06	223.67	155.04
Mozambique	0.66	35.00	48.07	8.04	63.25	7.70	45.33	1.08	12.37	56.76
Namibia		12.99	31.77	45.91						167.20
Niger		0.00	56.82	45.27	46.71	27.30	260.76	3.14	1.51	
Nigeria	40.86	69.55	36.97	110.02	140.36	29.88	31.79	66.82	806.32	7.11
Rwanda		12.28	26.97	13.69	0.12	16.19	86.79	0.37	300.03	0.02
Sao Tome Prn							1.12		38.00	
Senegal	36.78	71.73	48.78	74.93	58.10	114.80	7.53	89.43	57.10	66.88
Sierra Leone		32.49			7.67	1.66	14.23	29.51	7.84	18.44
Somalia	0.34	0.47		0.06	20.69	0.17	152.60	14.68	102.89	16.60
South Africa	829.38	75.28	2.56	29.78	506.90	0.09	0.06	495.30	452.03	3.62
South Sudan	0.08	0.02	0.27		0.12	0.07	0.20	0.02	27.07	0.03
Sudan					7.81	19.87	0.14		0.22	0.04
Tanzania	1.51	0.34	0.09	22.69	0.57	1.70	217.13	0.04	301.54	228.86
Togo		0.05	0.00		0.21	16.19	23.43	1.96	21.58	195.75
Tunisia	9.73	51.33	0.37	18.15	3.01	1.50	21.02	0.38	273.61	21.41
Uganda	19.56	32.68	2.06	3.38	4.13	13.64	0.10	554.52	3.85	20.12
Zambia		29.34	68.52	0.49	12.71	0.81	0.81	10.47	21.89	120.65
Zimbabwe		0.03	0.01		0.27	0.03		0.01	1.02	18.57
Unspecified Africa	23.26	352.72	42.93	89.83	178.30	156.41	371.85	185.84	576.01	94.06
Asia	293.78	3 623.82	1 047.08	1 566.29	665.81	1 629.91	2 363.83	699.83	3 534.56	1 607.54
Afghanistan		0.16	51.01	49.03	4.45	18.56			20.88	
Bangladesh		391.53	139.55	99.61	152.32	20.74	329.38	0.60	50.11	22.20
Bhutan						0.54	0.41	20.19		30.63
Cambodia	0.34	174.56	3.73	17.30	0.23	20.80	31.75	1.48	0.12	
China	0.10	449.74	159.46	54.21	1.09	65.13		2.39	68.66	0.78
India	200.11	1 650.85	478.54	667.46	332.38	757.89	971.79	296.59	1 787.87	491.62
Indonesia	88.80	161.34	1.96	13.66	0.77	21.65	367.99	7.73	271.76	1.06
Kazakhstan		51.20		98.21	45.88					99.82
Kyrgyzstan			0.08	0.01				41.48	16.97	0.01
Lao PDR		20.44	0.00		0.09	0.05	0.02	0.62	46.02	0.03
Malaysia	0.24	0.17			0.02	4.25				0.84
Maldives				6.37	4.47	15.19	27.79	0.66	5.48	
Mongolia		93.54	38.35	50.19	10.68	33.45	2.39		0.01	46.00
Myanmar	3.28	0.83	12.46	3.52	2.33	19.36	1.09	6.89	2.30	
Nepal		0.15	0.20	0.12	0.43	20.09	15.00	7.72	1.79	14.40
Pakistan	0.32	134.60	84.64	110.27	31.50	235.76	115.30	2.58	218.71	0.27
Philippines	0.07	84.33		0.01	0.79	7.03	0.71	0.68	2.35	0.68
Sri Lanka	0.06	33.72		205.02			0.41	5.53	1.00	
Tajikistan					6.70	4.63	0.08	13.20	16.24	
Thailand	0.03		0.00	167.00	0.05	25.42	23.41	32.88	0.12	420.90
Timor Leste		1.16				1.71	2.65			
Turkmenistan	0.10	0.02								
Uzbekistan	0.19				0.02	32.65	77.43	142.39	979.44	446.37
Viet Nam		314.34	0.29	0.76	49.23	324.89	134.29	111.74	29.12	21.14
Unspecified Asia	0.10	61.15	76.80	1.81	22.36	0.05	163.21	4.31	15.09	10.55
Unspecified C and S Asia	0.03			21.71	0.04	0.08	98.74	0.19	0.54	0.24

Solar energy
Énergie solaire
Energía solar

(2023 USD million)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
C America + Carib	361.29	908.36	715.28	162.54	12.53	16.38	66.60	109.41	213.73	108.08
Antigua Barb			4.65			7.06				
Bahamas							2.29			
Belize						0.02	3.05		77.00	
Costa Rica	8.17	160.01		0.03	0.32		16.68		62.50	
Cuba	17.57	163.74	53.79		2.10	3.24	0.13	0.98	0.27	0.12
Dominica				1.84						
Dominican Rep		91.44	48.26	0.08	0.11	0.03	3.05	92.23	36.82	36.31
El Salvador	66.47	74.94	358.95	30.84				0.07		
Grenada	0.07		0.11				3.05			
Guatemala		14.17		13.01		0.07		0.03		0.26
Haiti	0.34	0.63	22.74	0.41	8.99	2.26	6.10	2.98	4.11	24.52
Honduras	152.21	83.21	84.81	23.91	0.34		15.63	0.05	1.16	1.47
Jamaica	60.31		91.71	77.25	0.01	3.24	13.56		8.00	0.02
Nicaragua	0.01	70.98	46.85	0.12	0.19	0.21		0.02		0.86
Panama	56.14	171.45		0.06					0.25	44.53
St Lucia							3.05	0.70		
St Vincent Gren			3.42							
Unspecified Cent Am Carib		77.78		15.01	0.48	0.25		12.34	23.63	
Eurasia	19.02	1 230.53	27.62	108.53	12.29	11.29	7.92	159.10	558.17	1 325.68
Armenia		52.45		30.81	0.03	10.54	0.15	1.11	1.08	94.05
Azerbaijan								150.46		409.75
Georgia		81.46	0.26	0.03	12.25	0.75	1.09	1.03	0.90	0.82
Türkiye	19.02	1 096.62	27.35	77.69			6.68	6.50	556.19	821.06
Europe	0.09	9.06	0.86	28.25	3.91	19.96	121.02	100.35	241.62	306.02
Albania			0.13				10.84		64.40	3.36
Belarus						0.24				
Bosnia Herzg		3.60	0.29	0.44	0.58	0.03	0.07	0.17	0.03	26.58
North Macedonia				9.04		7.98		27.56	108.19	
Kosovo				0.02	0.03	0.02	0.07	69.66	32.03	39.67
Moldova Rep	0.09	0.27	0.05	0.11	0.06	0.04	0.30	0.82	1.51	43.77
Montenegro		5.19							4.33	24.04
Serbia						11.65	1.83	1.61	26.27	104.71
Ukraine			0.40	18.64	3.25		107.91	0.54	4.87	63.89
Unspecified Europe								0.01		
Middle East	127.23	606.73	257.34	82.27	80.65	168.67	117.48	1 673.10	63.22	343.30
Iran IR				3.77				0.06		
Iraq		290.93				0.43	1.09		0.06	
Jordan	125.77	274.59	251.74		61.27	24.23	24.67	1.00	60.68	2.64
Lebanon	0.44	26.36		0.34	0.35	0.18	0.71	2.26	1.38	177.18
Palestine	0.44	2.98	5.26	15.92	17.70	12.25	25.15	21.61	0.95	1.45
Qatar						130.43				
Saudi Arabia							63.52			
Syrian AR								0.62	0.06	
United Arab Em								1 500.75		150.04
Yemen				62.14	1.33	1.15		136.25		11.99
Unspecified Mid East	0.58	11.86	0.33	0.11			2.34	10.55	0.08	
N America	46.28	93.22	160.17	75.41	385.90	380.76	81.87	0.73	1.11	159.56
Mexico	46.28	93.22	160.17	75.41	385.90	380.76	81.87	0.73	1.11	159.56
Oceania	43.47	47.93	52.97	28.36	54.92	12.82	0.44	41.95	9.93	292.40
Cook Is	15.23	4.96								
Fiji	0.20	0.19	0.05		0.01	4.25	0.01		0.75	1.50
Kiribati				0.94		8.42		0.06	0.14	10.25
Marshall Is	4.61		35.95				0.18		0.46	59.46
Micronesia	4.52		1.29	10.17	16.68			1.05	0.23	0.38
Nauru	4.15				24.47		0.05			
Niue								0.03	0.11	6.78
Palau	5.76							37.20	4.07	
Papua N Guin		34.91	0.13	0.07	0.06	0.03	0.01	0.01	0.39	186.33
Samoa			2.28						1.16	
Solomon Is	7.36	7.73	2.56	10.70					2.50	14.68
Tokelau					4.32					2.42
Tonga	1.66	0.13	0.06	6.02						
Tuvalu				0.44	6.85	0.05				6.88
Vanuatu			9.24	0.02	0.86	0.06		0.01	0.13	0.34
Unspecified Oceania			1.41		1.67		0.20	3.60	0.00	3.38

Solar energy Énergie solaire Energía solar

(2023 USD million)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
S America	136.84	2 069.49	658.32	697.68	111.61	518.39	889.78	2 059.01	1 345.13	788.00
Argentina	8.83	261.87	353.28	83.72	106.26	0.01	0.95	0.01	231.84	
Bolivia	0.02	75.69	14.46	0.01	0.01	0.05	0.02	0.14	240.73	
Brazil	1.85	179.01	221.37	584.28	4.38	513.33	812.02	1 763.06	570.74	476.61
Chile	61.91	237.40	33.08						200.00	
Colombia		1 123.32	34.19	22.44	0.88	0.09	16.34	126.62	1.59	85.58
Ecuador		133.99	0.19				5.62	80.70	100.16	1.16
Fr Guiana							30.10			
Guyana	0.07			7.18		1.62	3.05	87.31	0.08	
Peru	0.00	58.20	1.74	0.05	0.08	0.05	21.36	1.04		224.64
Suriname						3.24	0.31	0.13		
Uruguay	64.16									
Unspecified countries	40.13	464.26	2.59	93.97	81.53	8.51	63.94	64.83	2.12	41.03

Bioenergy
Bioénergie
Bioenergía

(2023 USD million)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
World	772.70	168.52	253.31	625.57	467.67	371.99	432.01	332.43	286.93	21.38
Africa	78.46	23.19	24.31	47.08	5.38	45.56	231.95	51.64	4.34	6.88
Angola		20.37					0.00			
Benin	0.04				0.01	0.12	0.09	0.01	0.45	
Burkina Faso	0.07	0.04				0.25		0.08	0.22	
Burundi						19.43				
Cameroon	0.04									
Chad								30.92		
Congo DR			5.13		0.06		0.03			
Cote d'Ivoire		0.77		0.12		10.53	210.44			0.00
Egypt	0.03		0.63		0.00			0.01	1.08	
Eritrea				0.03						
Ethiopia	27.95	0.00			0.00			0.05		
Ghana	0.12	1.12				0.22			0.13	
Guinea					0.01					
Guinea Bissau			3.75							
Kenya			13.04	2.13	1.24	0.07	0.08	0.02	0.00	
Madagascar	0.04						0.04		0.03	0.02
Malawi			0.04							
Mauritius	10.55									
Morocco							0.00			
Mozambique			0.11				0.96			
Namibia										3.16
Nigeria	0.13						0.05	0.00	1.66	1.05
Rwanda			0.68	0.94	1.21	13.80	0.10	0.02		
Sao Tome Prn	0.40	0.35						0.78		
Senegal	0.01								0.01	
Sierra Leone									0.09	
South Africa				0.16	0.47	0.58	0.06	17.61		2.30
Tanzania	33.69	0.39	0.26	0.02				0.06		
Togo								0.01		
Uganda	0.04	0.15	0.68	43.66	2.13	0.54		0.01	0.02	
Zambia	5.31				0.24		0.08	0.32	0.38	0.35
Unspecified Africa	0.06						20.03	1.77	0.27	
Asia	97.53	106.62	108.13	217.89	230.55	72.55	94.39	118.80	127.43	10.11
Bangladesh					0.00	0.11		5.50		
Bhutan	0.12									
Cambodia							0.03			0.53
China	80.92	82.92	82.05	41.02	154.94	58.18	83.07	52.89		7.99
India	13.65	0.69	14.79	0.13			11.13	50.26	110.04	
Indonesia	0.03	0.05		7.65		0.45		0.40		
Kyrgyzstan										0.15
Lao PDR									0.02	
Malaysia										0.74
Maldives						8.62				
Mongolia				0.24						
Myanmar			0.02					2.29		
Nepal						0.03				
Pakistan							0.03			0.04
Philippines	0.76			0.02					0.70	0.58
Sri Lanka				20.56	75.61				0.06	
Thailand	0.19	0.27	0.02	38.53					0.01	
Uzbekistan						5.16				
Viet Nam	1.87	20.95	0.46	109.57	0.00		0.01	7.34	16.60	0.07
Unspecified Asia		1.74	10.80	0.15			0.13	0.11		0.02
C America + Carib	68.40	0.66		15.03	0.01	0.80	10.67	0.22		
Costa Rica	5.53									
Cuba	62.87	0.12		0.03	0.01			0.20		
Dominican Rep						0.80				
El Salvador						0.00	0.76			
Guatemala		0.49					9.90			
Haiti						0.00				
Jamaica					0.00					
Unspecified Cent Am Carib		0.05		15.01				0.03		
Eurasia	0.07		0.11						25.87	
Armenia			0.11							
Georgia	0.07									
Türkiye									25.87	

Bioenergy Bioénergie Bioenergía

(2023 USD million)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Europe	31.75	8.67	33.78	94.44	160.77	7.86	0.86		65.26	3.36
Belarus		0.04			160.76	0.15				
Bosnia Herzg	1.40	0.23	0.46				0.07		0.14	0.57
North Macedonia						7.69				
Kosovo	27.70									
Moldova Rep	0.02									0.83
Montenegro							0.05			
Serbia		8.33	33.22	78.40	0.01	0.02	0.73		65.12	
Ukraine	2.63	0.07	0.10	16.04		0.01				1.96
Middle East			0.03				0.14			0.32
Lebanon							0.14			
Palestine			0.03							0.32
N America				5.00						
Mexico				5.00						
Oceania	0.02		0.56	0.07	0.00			0.14		
Fiji	0.01				0.00					
Papua N Guin								0.04		
Solomon Is				0.07						
Tuvalu								0.10		
Unspecified Oceania	0.01		0.56							
S America	496.39	29.38	84.94	246.05	70.96	245.22	94.00	142.01	64.03	0.69
Argentina				112.72						
Bolivia		0.01								
Brazil	486.34	27.36	77.92	133.33	70.95	245.08	93.40	142.01	63.99	
Chile	1.07	0.40	0.31							
Colombia					0.00	0.13	0.60		0.05	
Ecuador	8.77	0.01	0.01							
Paraguay										0.69
Peru	0.21	1.61	0.01							
Uruguay			6.70							
Unspecified countries	0.07		1.44					19.62		0.02

Geothermal energy

Énergie géothermique

Energía geotérmica

(2023 USD million)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
World	1 245.97	865.39	1 504.56	1 089.31	394.94	438.99	522.48	58.22	58.50	594.10
Africa	24.70	413.12	56.92	124.20	40.97	2.25	126.67	24.16	48.88	61.23
Benin	0.77									
Comoros	1.07									
Cote d'Ivoire							19.73	23.90		
Djibouti				32.67				0.03	0.00	
Egypt					0.00					
Ethiopia	20.92		13.85	15.63	0.00	1.91	0.36	0.02	0.09	51.15
Kenya		407.95	0.97	75.79	40.96		86.67	0.21	48.66	9.07
Madagascar			0.01							
Malawi				0.03						
Rwanda				0.06						
Tanzania			27.86	0.03						
Zambia			0.91							
Unspecified Africa	1.94	5.17	13.33			0.35	19.91		0.14	1.01
Asia	220.24	83.18	97.30	864.33	195.97	323.81	0.61	0.61	1.97	451.77
Bangladesh					0.00					
Bhutan										0.07
China	0.10		0.11	108.42	43.60					287.75
India							0.07	0.13	0.48	0.02
Indonesia	220.14	59.10	84.82	657.04	152.32	323.80	0.34	0.04	0.04	163.43
Kazakhstan				0.09	0.04	0.01	0.20	0.01		
Mongolia		0.44							0.09	
Philippines		23.65	1.65	98.45				0.43	1.37	0.49
Viet Nam					0.00					
Unspecified Asia			10.72	0.33						
C America + Carib	735.80	333.65	581.03	100.04	42.37	10.50	102.44	29.25	4.95	33.39
Costa Rica	730.68		209.31	30.05						
Dominica			11.34		9.57				0.02	33.16
El Salvador		154.37		0.37	0.10	0.37	0.08	0.61	0.10	0.12
Grenada			0.39				0.36			
Guatemala			1.01							
Honduras			330.14							0.11
Jamaica					0.00					
Montserrat	2.31	9.19								
Nicaragua		99.96	0.77		8.47		98.10	28.62		
Panama	1.17									
St Lucia			10.86				3.90			
St Vincent Gren		35.36								
Unspecified Cent Am Cari	1.64	34.78	17.21	69.61	24.23	10.13		0.02	4.83	
Eurasia	85.67				111.47		289.93	0.00		
Armenia	10.21									
Azerbaijan								0.00		
Georgia					0.25					
Türkiye	75.46				111.22		289.93			
Europe	1.61	0.50	0.43			7.98		0.02	0.10	
Bosnia Herzg	0.59	0.12	0.43					0.02		
North Macedonia						7.98				
Serbia	0.96	0.38								
Ukraine	0.06	0.00							0.10	
N America	110.11				0.80	92.82	0.29			
Mexico	110.11				0.80	92.82	0.29			
Oceania			0.68	0.00	0.02					
Fiji				0.00	0.02					
Vanuatu			0.11							
Unspecified Oceania			0.56							

Geothermal energy Énergie géothermique Energía geotérmica

(2023 USD million)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
S America	44.63		768.11		0.00	0.43	0.12	0.24	0.00	45.59
Argentina								0.01	0.00	
Bolivia			462.40							
Brazil			271.26					0.11		
Chile	33.10					0.43				
Colombia	11.52		34.19		0.00					0.02
Ecuador	0.01		0.26				0.12	0.11		45.56
Unspecified countries	23.21	34.93	0.10	0.73	3.33	1.20	2.42	3.94	2.59	2.13

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

(2023 USD million)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
World	14 261.40	31 413.99	23 962.28	19 536.52	15 450.13	13 989.76	14 427.42	19 344.22	24 380.42	24 559.09
Africa	5 463.71	12 248.21	7 276.45	6 736.19	5 218.22	3 316.40	5 387.55	7 510.97	8 193.59	6 138.88
Algeria	0.77	0.15	0.01	0.05	0.06	0.01	0.10	6.91	8.16	19.67
Angola	0.01	5 145.90	4.61	0.13	0.06	0.07	0.00	83.86	62.51	787.47
Benin	241.75	67.80	307.80	2.31	4.37	56.02	47.66	103.54	35.18	38.07
Botswana		0.01	0.02	0.01			42.39	6.42	77.54	105.87
Burkina Faso	0.19	32.70	23.25	39.29	55.41	162.55	160.63	8.02	53.00	3.68
Burundi	3.38	0.06	19.27	11.95	100.52	121.45			1.16	219.49
Cabo Verde	3.59	8.72	0.12		1.38	2.80	12.08	1.22	121.83	0.11
Cameroon	96.68	86.95	179.57	1 129.11	8.87	48.24	7.54	7.95	163.68	0.45
Cent Afr Rep		0.00	0.03	4.16	55.67	11.05		82.64	0.66	0.59
Chad	0.02	46.14	0.01		23.52	13.76	22.59	262.85	0.81	39.04
Comoros	1.07	0.01	12.44	0.15	18.56	38.96	0.04	36.30	5.34	22.50
Congo DR	0.68	27.00	48.72	0.09	1.05	0.66	43.01	7.44	873.95	7.50
Congo Rep		0.09		23.01	0.10	0.33	0.56	2.34	8.89	90.10
Cote d'Ivoire	158.58	38.96	42.58	64.39	325.92	76.48	429.78	360.25	138.06	138.58
Djibouti	0.77	1.18	27.97	33.95	30.45	1.27	0.30	74.99	3.48	0.37
Egypt	283.55	317.81	2 185.62	138.90	380.45	260.56	161.15	1 390.37	300.96	754.27
Eq Guinea	0.02	79.21			24.84					0.24
Eritrea	16.05		95.55	0.03		0.00		0.26	48.41	
Eswatini	1.16				14.74	0.08	0.20	0.06	0.30	0.31
Ethiopia	80.26	522.19	559.90	75.11	60.71	4.26	418.15	1.42	85.68	490.86
Gabon	14.55	45.45	0.14	3.15			79.10			
Gambia			28.45	67.12	28.13	33.12	68.65	27.80	6.50	13.89
Ghana	66.86	565.04	8.95	32.45	11.72	31.52	18.50	289.19	37.77	180.80
Guinea	62.59	157.16	0.14	1 185.00	8.13	0.01	204.67	0.03	2.70	95.25
Guinea Bissau		0.46	3.75	5.04	0.27	0.01			3.29	34.25
Kenya	300.56	717.00	520.38	302.11	218.25	40.40	116.56	186.88	169.22	114.99
Lesotho	0.04	0.00		0.93	15.07	112.20	0.43	28.96	0.04	10.66
Liberia	292.67	12.06	52.03	7.70	41.47	29.34	3.62	108.74	0.43	39.17
Libya						0.01	5.67			
Madagascar	5.37	25.40	30.89	247.90	49.26	31.25	104.96	34.63	561.76	29.66
Malawi	55.82	0.39	4.69	20.18	128.30	12.66	16.54	83.59	16.18	244.85
Mali	10.51	68.17	29.93	22.74	52.26	66.04	9.55	14.47	157.54	5.46
Mauritania	0.13	199.04	20.52	0.76	13.60	30.75	0.03	13.15	1.15	40.94
Mauritius	10.57	32.83	0.38	20.33	14.67	1.20			18.97	0.29
Morocco	398.82	467.61	132.28	990.60	704.52	273.96	1.38	73.03	311.72	327.44
Mozambique	5.78	35.58	89.21	48.21	207.77	216.58	104.37	128.42	21.73	151.37
Namibia	34.00	12.99	40.74	45.92	0.02	0.00	24.53	9.22	4.92	289.24
Niger		1.31	92.33	66.71	119.67	141.46	261.69	5.03	26.86	1.25
Nigeria	72.58	71.10	165.75	112.97	211.73	36.68	35.00	74.52	872.83	32.92
Rwanda		46.32	90.22	17.72	1.77	292.20	92.28	143.69	335.36	99.43
Saint Helena	1.63									
Sao Tome Prn	0.40	0.35	2.04			15.03	2.26	14.52	38.00	
Senegal	43.13	700.67	55.66	110.04	73.74	117.54	49.79	89.66	103.41	77.93
Seychelles	0.04	0.55	1.04							
Sierra Leone		49.35	0.45	0.28	7.97	8.14	15.46	109.23	8.02	18.51
Somalia	0.34	0.91	0.02	3.35	24.36	0.23	152.60	14.68	131.41	25.12
South Africa	1 319.57	1 105.87	29.88	949.18	757.53	353.64	335.58	1 235.62	1 065.43	437.00
South Sudan	0.08	0.03	0.33	0.32	0.12	0.07	0.20	0.03	27.07	0.54
Sudan	0.04	0.05	0.01	2.75	229.49	20.02	0.30	0.01	0.22	4.65
Tanzania	43.94	169.78	29.25	24.29	7.05	13.38	341.49	90.06	586.77	230.09
Togo	10.02	66.63	0.00	19.80	1.28	18.30	37.95	67.23	25.32	198.65
Tunisia	10.10	52.03	5.14	21.08	91.02	22.72	21.23	62.70	341.92	38.40
Uganda	1 557.17	219.06	108.22	567.46	172.94	24.52	10.62	584.19	234.37	62.51
Zambia	86.97	123.21	1 806.06	59.42	87.00	14.71	11.70	29.20	51.00	144.63
Zimbabwe		0.04	5.83	0.01	0.29	0.07	0.01	3.44	1.21	21.43
Other Africa	170.88	926.88	414.33	258.02	832.13	560.07	1 914.66	1 552.23	1 040.88	448.35

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

(2023 USD million)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Asia	4 128.42	8 658.97	8 405.55	7 851.48	5 142.43	5 242.22	5 583.12	4 586.09	9 482.17	6 860.96
Afghanistan	5.56	0.92	56.12	76.41	4.96	53.74	0.01	66.10	20.88	1.88
Bangladesh	9.30	467.88	265.06	269.05	516.78	202.92	339.00	120.50	428.55	24.71
Bhutan	140.34	0.06	0.88	0.16	0.79	2.16	0.81	20.19	12.21	237.34
Cambodia	49.99	198.12	56.31	61.96	10.12	207.97	31.88	13.31	22.72	2.26
China	102.40	1 894.15	392.59	907.21	225.60	123.67	102.89	55.53	86.55	297.95
Chinese Taipei									1 554.73	
India	1 238.08	2 661.82	2 312.10	1 913.71	1 642.64	1 415.62	1 408.92	1 500.49	3 309.48	1 676.77
Indonesia	422.14	380.02	336.01	1 130.71	311.42	448.21	1 010.72	392.87	675.19	311.20
Kazakhstan	53.93	51.21	167.06	255.09	782.20	30.27	45.85	0.45	99.95	525.67
Korea DPR	0.00	0.38	2.68	0.73	1.13	0.00				
Kyrgyzstan	0.03	42.68	1.38	13.75	197.60	0.07		41.52	105.71	18.62
Lao PDR	79.53	779.01	2 299.54	404.98	2.32	0.49	0.04	157.86	213.81	50.33
Malaysia	0.25	1.13	0.06	0.04	0.02	4.25	0.00	0.49	0.30	5.22
Maldives	6.91	82.31	0.02	6.37	4.47	30.50	27.79	0.69	70.94	0.77
Mongolia	0.74	202.54	93.21	129.52	11.95	142.50	2.39	74.68	271.97	50.25
Myanmar	63.84	6.40	114.63	28.07	55.15	66.82	11.05	18.49	2.72	0.50
Nepal	47.75	32.60	11.94	44.18	409.50	313.38	109.16	41.20	30.48	421.46
Pakistan	1 524.01	1 179.45	1 292.96	727.53	308.81	1 044.59	1 238.59	108.91	623.39	1 121.68
Philippines	25.21	122.58	1.76	99.97	4.18	7.82	50.24	10.21	218.93	55.77
Sri Lanka	0.49	123.67	234.54	1 241.37	75.78	0.60	1.08	17.69	4.93	198.37
Tajikistan	126.92	0.10	526.69	19.14	119.03	93.58	87.97	47.46	150.12	525.10
Thailand	61.65	0.43	1.73	329.86	110.15	59.12	23.89	310.24	4.68	423.51
Timor Leste	0.00	1.17			0.01	1.71	2.73	0.18	0.23	0.35
Turkmenistan	0.12	0.09	0.07	0.00	0.04		0.03	2.49		0.98
Uzbekistan	0.30	0.76	62.50	13.23	29.32	363.55	103.19	802.07	1 235.79	528.81
Viet Nam	68.63	336.62	30.33	117.82	248.77	465.67	556.37	233.92	245.97	209.93
Other Asia	100.14	92.83	144.81	29.75	66.19	159.83	278.34	546.47	63.65	155.14
Other Central Asia and S	0.16	0.06	0.58	30.87	3.51	3.18	150.18	2.11	28.30	16.40
C America + Carib	1 997.87	1 552.77	2 012.39	645.00	691.51	1 286.24	502.23	1 242.26	1 092.07	836.25
Antigua Barb	7.63		21.76			7.06				
Bahamas			0.02	0.12	0.63	205.07	2.44		0.25	
Barbados	0.09	9.89		0.05	37.92					
Belize	0.01	1.97	0.01	17.85	0.29	0.02	3.05	0.03	77.00	7.42
Costa Rica	919.48	194.54	209.32	31.11	0.76	324.02	17.22	32.67	69.77	0.87
Cuba	81.62	198.37	225.80	7.75	7.54	3.25	0.13	2.28	0.99	1.70
Dominica			14.76	2.50	19.50				0.02	33.16
Dominican Rep	0.53	91.45	93.45	0.44	67.17	1.12	170.50	92.38	218.10	36.35
El Salvador	85.47	229.32	605.86	71.59	0.99	0.82	21.76	105.79	234.84	29.55
Grenada	1.97		0.79		0.23		3.41		0.01	9.00
Guatemala	0.02	16.29	1.01	27.78	43.37	32.70	13.59	5.06	6.10	2.74
Haiti	54.40	9.67	27.44	0.82	17.67	23.15	19.76	2.98	6.76	34.90
Honduras	405.32	83.45	454.75	115.19	1.07	21.76	16.32	420.17	15.37	355.99
Jamaica	103.03	19.72	92.76	78.77	0.20	3.24	14.91	0.37	12.32	0.56
Montserrat	2.31	9.20	0.16							
Nicaragua	121.11	196.34	146.77	22.01	8.69	194.17	98.64	28.65	1.27	0.93
Panama	57.31	325.15	26.72	0.39	100.11	287.37	0.03	0.36	202.90	235.87
St Lucia	0.01		10.87				6.95	0.70		1.92
St Vincent Gren		35.39	3.44							
Trinidad Tobago						0.27		0.37		
Other Cent Am Carib	157.57	132.01	76.70	268.61	385.37	182.24	113.52	550.45	246.39	85.30
Eurasia	578.02	1 869.71	487.37	1 307.63	577.60	426.82	467.82	576.68	1 892.60	2 191.52
Armenia	25.88	137.64	1.78	30.86	62.14	28.36	54.57	1.24	22.11	132.56
Azerbaijan	86.40	0.01	0.02		0.01	0.00	0.01	162.76	215.17	409.77
Georgia	21.45	101.06	33.94	51.82	154.63	0.80	5.32	68.09	79.63	283.99
Türkiye	444.28	1 630.99	451.63	1 224.95	360.82	397.65	407.93	344.60	1 575.69	1 365.19

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

(2023 USD million)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Europe	199.69	311.48	672.25	263.60	786.78	114.54	311.69	335.44	1 132.25	1 728.02
Albania	27.20		0.13		4.97		59.55	2.30	78.09	3.80
Belarus	12.38	0.15	0.14	17.40	173.70	0.39	0.00			
Bosnia Herzg	7.46	4.15	80.77	1.72	23.02	4.09	0.55	1.05	83.46	36.48
North Macedonia	0.08	0.01	5.27	9.04	0.00	23.66	12.21	29.84	262.00	64.85
Kosovo	27.73	0.00	0.81	0.68	95.20	0.02	0.07	69.73	36.54	69.90
Moldova Rep	0.60	0.29	26.00	0.11	0.25	0.10	0.92	26.08	15.30	169.89
Montenegro	92.99	5.24	0.01	0.03	99.36	18.73	0.05	14.62	122.07	91.45
Serbia	5.00	20.42	505.62	109.40	14.50	11.93	26.62	94.68	300.34	632.42
Ukraine	26.24	273.65	51.54	118.53	373.43	45.45	199.41	68.51	215.10	646.54
Other Europe		7.57	1.97	6.68	2.34	10.18	12.29	28.63	19.34	12.68
Middle East	365.51	906.83	597.24	269.05	136.75	55.08	79.93	260.67	122.39	331.28
Iran IR	0.17	0.07	0.32	3.77		0.01	0.00	0.06		
Iraq		290.93	123.47			0.44	1.09	4.66	0.06	
Jordan	257.78	567.49	440.27	132.05	84.02	39.99	25.41	58.41	79.14	55.65
Lebanon	40.13	26.40	0.04	6.96	0.40	0.19	2.26	27.84	29.97	250.71
Palestine	25.60	9.40	10.70	48.28	18.45	13.14	25.84	22.06	11.64	2.01
Syrian AR				0.06				0.62	0.06	0.02
Yemen			0.01	62.14	1.33	1.16	8.43	136.26	0.01	14.49
Other Mid East	41.83	12.55	22.44	15.80	32.55	0.15	16.89	10.76	1.50	8.40
N America	235.44	515.39	559.44	333.96	581.82	585.30	334.87	1.53	18.95	174.19
Mexico	235.44	515.39	559.44	333.96	581.82	585.30	334.87	1.53	18.95	174.19
Oceania	99.52	76.96	426.65	87.32	161.50	22.34	19.43	94.82	68.58	427.01
Cook Is	20.14	4.96								
Fiji	1.64	0.20	0.05	5.47	0.13	4.58	0.52	0.03	8.08	7.47
Kiribati	0.05	0.00		0.94		13.71		0.06	0.14	23.47
Marshall Is	4.61	0.21	45.57				2.72	0.03	0.46	78.06
Micronesia	4.52	0.01	1.29	11.16	30.40	0.02	0.10	2.65	1.02	12.36
Nauru	9.79	3.30	2.89		24.47	0.14	0.05			
New Caledon			64.57							
Niue	0.01	0.27	8.18		0.11			0.03	0.15	9.04
Palau	5.77	0.00			1.25	0.14	0.05	37.28	4.09	0.61
Papua N Guin	9.28	36.08	70.41	0.15	0.14	0.10	0.17	10.22	19.11	211.55
Samoa	0.03	0.00	2.28				0.01	0.02	1.19	6.79
Solomon Is	7.56	7.93	179.96	23.63	51.54	1.00	1.73	0.02	2.74	17.09
Tokelau					4.32					2.42
Tonga	15.88	3.19	22.61	41.26	16.37	2.40	2.33	10.77	0.04	12.60
Tuvalu	9.55			0.44	6.85	0.05	3.05	0.10		7.86
Vanuatu	8.08		19.72	2.00	1.03	0.06	8.03	29.72	4.34	1.39
Other Oceania	2.61	20.81	9.11	2.27	24.89	0.14	0.67	3.89	27.23	36.29
S America	934.33	4 314.11	2 778.11	1 500.68	1 194.81	2 291.98	1 178.40	3 091.28	1 490.57	4 892.34
Argentina	126.44	279.32	534.74	554.78	543.39	497.19	2.98	273.41	333.76	1 174.70
Bolivia	2.08	1 201.96	560.40	91.13	0.88	3.43	0.03	3.79	278.45	38.78
Brazil	119.20	460.71	985.54	322.53	547.71	1 195.63	889.71	1 329.75	481.58	1 053.58
Chile	126.13	363.05	232.87			1.04	38.96	382.87	206.25	632.80
Colombia	25.22	1 624.46	207.67	160.76	3.43	54.19	65.04	290.67	54.64	381.19
Ecuador	149.80	190.79	41.71	28.21	8.84	76.66	5.86	96.42	131.39	1 164.36
Guyana	1.61			38.46	16.27	1.66	3.08	87.34	0.08	0.24
Paraguay		0.41		227.52	47.83	432.66	63.78	104.81	0.92	0.69
Peru	95.81	115.41	194.80	76.85	1.21	26.28	108.36	428.20	3.01	286.03
Suriname			0.01		25.03	3.24	0.56	0.34		12.94
Uruguay	230.04	78.00	20.36		0.22			93.68	0.50	147.02
Venezuela	57.99			0.44			0.04			
Unspecified countries	258.90	959.56	746.84	541.61	958.73	648.83	562.37	1 644.48	887.27	978.64

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)

(Watts per capita)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
World	247.6	267.0	285.7	304.6	325.0	356.1	386.4	420.9	477.2	544.4
Africa	28.4	29.6	32.3	34.8	35.8	37.3	37.9	40.6	44.1	46.2
Algeria	7.5	12.2	14.2	14.2	14.0	13.3	11.3	13.0	13.0	12.8
Angola	36.2	60.0	80.9	99.5	106.5	113.1	109.5	114.1	111.3	109.3
Benin	0.2	0.2	0.2	0.2	0.3	0.4	0.5	2.5	2.5	2.5
Botswana	1.0	1.5	1.5	1.6	2.5	2.5	2.6	2.6	4.2	4.1
Burkina Faso	1.9	1.9	3.6	4.2	4.3	4.3	4.2	5.5	9.2	10.2
Burundi	5.0	5.0	4.7	4.6	4.4	4.3	4.7	5.7	5.6	5.5
Cabo Verde	64.7	64.9	65.2	73.3	79.7	81.2	85.2	95.9	101.2	110.2
Cameroon	32.2	31.2	30.8	30.0	32.4	31.5	31.2	30.4	30.9	30.1
Cent Afr Rep	4.1	4.0	4.0	3.9	3.9	3.8	3.8	3.8	11.5	11.1
Chad	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2
Comoros	2.0	3.0	3.4	3.4	3.3	3.2	5.9	5.4	5.3	5.2
Congo DR	29.8	29.0	28.1	29.0	28.2	27.3	26.5	28.9	30.4	30.0
Congo Rep	40.5	40.7	42.3	41.2	40.3	39.4	38.5	37.6	36.7	35.8
Cote d'Ivoire	23.9	23.3	32.9	32.1	31.3	30.6	29.9	29.2	29.5	28.8
Djibouti	0.1	0.4	0.4	0.4	0.4	0.4	18.2	18.0	69.8	68.8
Egypt	36.7	36.2	36.7	45.4	52.9	54.3	56.4	56.1	58.6	66.5
Eq Guinea	86.4	83.4	80.6	78.9	76.3	74.3	72.4	70.5	68.8	67.2
Eritrea	2.8	3.1	7.7	8.4	8.3	8.1	7.7	7.5	7.4	7.2
Eswatini	147.2	146.4	145.3	144.0	142.7	141.2	147.8	146.3	160.5	158.9
Ethiopia	25.2	24.8	39.8	39.5	38.5	39.6	39.0	44.6	43.3	45.4
Gabon	84.2	81.8	80.1	78.4	141.5	138.2	135.2	132.2	129.3	130.9
Gambia	0.8	1.0	1.1	1.1	1.2	1.2	1.2	1.1	1.1	9.4
Ghana	56.6	55.5	54.5	54.3	53.6	53.3	54.1	53.1	52.7	51.7
Guinea	31.4	30.6	29.8	30.1	29.0	45.2	60.5	59.1	57.7	56.3
Guinea Bissau	0.1	0.4	0.5	1.0	0.9	0.9	1.0	0.9	0.9	0.9
Kenya	33.1	33.8	34.0	41.0	40.7	44.0	46.5	49.1	53.2	54.1
Lesotho	35.5	35.0	34.6	34.1	33.8	33.4	33.1	32.8	44.5	44.5
Liberia	1.1	5.8	19.3	19.0	18.8	18.5	18.1	17.8	17.5	17.1
Libya	0.8	0.7	0.8	0.7	0.7	0.7	0.9	0.9	1.1	1.1
Madagascar	6.5	6.3	6.2	6.8	6.6	6.5	6.4	8.1	8.0	7.9
Malawi	23.0	22.4	21.9	21.3	20.8	20.4	23.8	25.3	24.7	24.0
Mali	17.6	17.1	18.4	17.9	17.4	19.2	20.0	25.7	24.9	25.9
Mauritania	13.3	16.9	16.4	28.0	27.3	26.5	25.7	25.3	51.7	56.8
Mauritius	133.0	145.6	151.2	184.7	204.4	211.4	214.2	213.2	226.2	237.5
Morocco	66.7	69.0	71.6	91.3	90.4	96.3	98.4	99.8	112.5	122.3
Mozambique	85.4	83.0	80.5	78.2	77.3	75.2	73.0	72.1	70.5	68.6
Namibia	145.4	153.5	167.6	185.3	204.3	200.1	195.2	206.6	201.5	197.0
Niger	0.3	0.3	0.3	0.6	0.6	0.6	0.6	2.0	3.2	3.1
Nigeria	11.2	11.0	10.7	10.5	10.4	10.3	10.3	10.2	13.4	13.2
Rwanda	9.0	9.3	9.4	9.4	10.3	10.9	10.8	11.1	10.9	12.7
Sao Tome Prn	9.6	10.2	11.0	10.8	10.6	10.4	9.6	8.5	10.7	10.5
Senegal	3.9	6.7	9.2	11.5	16.2	22.0	25.3	24.9	24.3	26.0
Seychelles	69.1	79.7	87.1	97.0	94.7	115.7	188.7	189.2	185.6	182.1
Sierra Leone	12.8	12.6	13.0	12.7	12.8	12.8	13.5	13.9	13.6	13.3
Somalia	0.2	0.3	0.3	0.4	0.4	0.9	1.3	2.6	2.7	2.6
South Africa	60.5	76.5	92.1	95.7	99.2	119.4	125.5	158.5	197.2	211.2
South Sudan	0.0	0.1	0.2	0.2	0.2	0.3	0.3	0.4	1.5	2.7
Sudan	38.5	37.5	36.5	39.4	38.7	38.4	37.8	37.9	37.4	37.1
Tanzania	12.7	12.4	12.1	11.9	11.5	11.3	11.0	10.7	11.6	21.6
Togo	8.7	8.5	8.3	8.6	8.7	8.9	14.7	14.6	14.4	14.0
Tunisia	28.9	29.5	30.0	31.9	32.9	34.0	33.8	42.1	67.1	88.5
Uganda	20.4	19.8	20.2	21.5	27.2	26.7	25.9	25.7	33.2	36.3
Zambia	141.0	143.8	140.1	136.1	137.1	133.2	145.2	164.0	161.2	159.7
Zimbabwe	60.8	60.2	59.8	79.1	78.0	76.9	76.4	76.0	75.0	77.3

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)

(Watts per capita)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Asia	174.8	194.9	218.5	241.3	262.8	301.8	335.8	374.0	447.5	539.0
Afghanistan	8.9	10.1	10.4	10.1	10.6	10.3	10.5	12.9	12.6	12.3
Bangladesh	3.0	2.8	3.0	3.2	3.4	3.7	4.7	4.7	6.0	6.8
Bhutan	2 180.3	2 159.2	2 140.7	2 125.7	3 053.0	3 032.5	3 011.6	2 990.5	2 970.8	3 103.3
Brunei Darism	2.9	2.8	2.8	2.8	2.8	3.3	10.8	10.8	11.0	11.2
Cambodia	64.0	63.3	67.6	89.0	93.8	103.5	105.5	109.8	108.6	129.7
China	343.2	385.3	439.6	490.1	533.1	628.6	713.6	811.2	1 021.9	1 280.9
China HK SAR	0.1	0.1	6.3	6.3	19.0	19.3	19.9	32.7	52.8	53.0
Chinese Taipei	170.6	187.0	209.2	251.0	316.1	390.9	479.4	589.9	755.8	892.5
India	59.2	67.3	77.4	86.0	92.5	96.1	104.2	114.6	122.3	140.9
Indonesia	32.8	34.3	35.4	36.3	37.8	38.1	41.7	45.2	47.4	50.9
Japan	525.7	594.2	657.9	714.8	778.9	854.6	916.4	971.0	1 020.1	1 053.8
Kazakhstan	155.2	155.3	155.4	163.1	187.7	215.1	229.8	253.0	278.6	269.7
Korea DPR	175.6	184.2	185.9	186.7	186.5	189.2	189.4	190.2	190.8	190.8
Korea Rep	138.8	178.6	217.0	260.3	340.4	426.0	471.0	526.6	589.8	653.5
Kyrgyzstan	612.6	601.9	593.0	579.2	565.6	551.2	407.7	399.7	444.3	453.4
Lao PDR	652.1	710.9	734.9	777.8	882.3	1 114.2	1 226.6	1 300.7	1 299.1	1 334.7
Malaysia	250.3	249.4	217.2	226.7	236.3	252.7	253.9	267.6	266.4	267.7
Maldives	14.5	20.1	26.6	37.8	62.9	81.0	80.7	102.4	107.7	132.9
Mongolia	31.3	34.7	60.7	82.1	88.1	87.6	86.3	85.2	85.1	94.4
Myanmar	63.8	64.9	64.7	64.5	64.9	64.4	64.4	65.3	64.8	65.0
Nepal	29.2	29.8	34.9	39.2	43.0	46.7	70.2	77.9	94.3	117.2
Pakistan	37.4	40.0	41.3	53.8	53.5	54.3	55.3	62.0	65.2	69.7
Philippines	54.1	59.4	60.1	61.0	61.9	63.2	65.6	68.2	69.4	80.3
Singapore	38.8	47.7	51.0	58.8	77.1	87.9	118.5	152.3	200.8	287.4
Sri Lanka	86.4	89.1	93.1	98.0	104.0	108.9	120.0	128.3	135.4	156.3
Tajikistan	573.5	559.2	545.7	532.7	600.0	586.6	573.8	563.4	552.2	541.7
Thailand	112.0	132.2	142.6	157.1	163.6	165.3	172.9	174.8	175.6	175.9
Timor Leste	1.4	1.4	1.1	0.9	0.7	0.5	0.5	0.6	0.6	0.6
Turkmenistan	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3
Uzbekistan	61.2	60.2	58.5	59.3	58.0	60.3	60.0	69.5	80.1	142.1
Viet Nam	183.0	194.4	192.2	194.4	268.4	391.4	434.6	448.3	476.3	485.3
C America + Carib	133.0	146.2	154.0	162.9	171.1	175.3	180.6	184.9	196.3	198.7
Anguilla	82.5	158.7	157.5	79.6	104.0	103.9	106.5	108.7	107.0	105.6
Antigua Barb	38.0	39.0	47.7	95.8	95.4	140.1	161.0	160.1	167.0	166.2
Aruba	365.8	374.0	371.8	421.1	418.5	417.3	416.7	415.7	415.1	423.9
Bahamas	10.4	10.6	10.3	10.6	14.9	16.0	28.9	41.5	41.5	56.2
Barbados	11.2	53.6	58.7	61.7	118.3	174.7	226.8	249.7	958.1	249.6
Belize	234.0	228.6	244.9	241.3	252.7	249.7	246.8	242.3	237.5	234.1
BES Islands	464.4	545.0	630.5	666.9	693.7	671.9	650.6	620.9	632.3	789.1
Br Virgin Is	36.6	42.1	43.6	41.4	49.2	54.8	60.5	60.5	83.3	84.3
Cayman Is		43.6	135.8	162.5	178.1	198.5	208.3	204.0	204.0	200.1
Costa Rica	516.6	599.4	606.8	621.4	628.8	620.4	628.8	617.4	626.0	618.2
Cuba	48.0	46.3	53.2	59.9	54.1	69.3	73.1	71.6	72.9	74.4
Curacao	240.8	245.1	346.4	325.9	312.2	326.9	326.3	326.3	326.9	453.5
Dominica	100.9	107.8	109.5	105.4	105.9	106.3	106.9	107.5	122.5	123.2
Dominican Rep	71.1	79.6	86.6	99.3	129.5	132.8	149.2	165.6	194.3	224.4
Grenada	9.6	19.7	20.5	23.6	28.9	31.6	32.0	31.9	33.0	32.9
Guadeloupe	372.2	374.1	377.8	420.9	465.3	504.9	545.9	585.0	603.7	608.6
Guatemala	136.2	159.5	162.0	168.2	167.4	165.0	153.0	151.2	149.2	146.9
Haiti	5.7	5.7	5.7	7.6	7.5	7.4	7.3	7.1	7.0	7.0
Jamaica	39.4	68.2	78.0	77.9	96.0	95.8	95.9	96.6	97.6	98.9
Martinique	181.2	187.5	196.1	317.9	371.3	379.7	395.4	400.6	429.1	443.7
Montserrat					55.1	55.5	223.3	224.6	230.3	231.9
Nicaragua	99.7	106.1	106.7	105.3	112.8	111.4	110.2	110.8	109.7	110.7
Panama	513.2	509.1	515.3	553.7	555.9	555.2	609.1	632.0	657.9	671.2
Puerto Rico	115.3	127.5	148.9	153.5	163.2	178.0	211.9	259.6	356.9	368.1
St Barth		2.5	2.4	2.4	2.3	4.1	4.0	5.7	5.6	106.6
St Kitts Nevis	77.1	87.8	87.8	88.6	89.8	111.2	111.5	111.6	111.5	143.3
St Lucia	4.3	5.9	5.9	22.8	24.1	24.3	24.3	24.3	24.6	28.7
St Maarten										
St Martin	69.6	48.4	2.7	2.8	14.6	31.5	33.4	65.8	76.3	80.4
St Vincent Gren	76.1	78.3	79.4	85.9	93.2	95.4	96.7	98.1	103.8	104.5
Trinidad Tobago	2.8	2.8	2.8	2.7	2.7	2.7	2.8	2.7	2.7	3.1
Turks Caicos	0.8	0.8	4.8	10.6	21.8	21.2	56.8	71.7	76.2	86.4
US Virgin Is	92.3	95.0	53.5	109.3	112.9	115.1	115.7	116.7	117.8	360.3

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)

(Watts per capita)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Eurasia	347.3	359.2	375.8	389.9	405.2	428.6	450.5	464.0	489.7	534.2
Armenia	441.4	450.7	457.0	466.2	469.7	485.5	520.6	549.6	598.8	618.5
Azerbaijan	118.3	119.9	119.7	127.2	127.5	127.2	128.6	128.7	163.6	173.4
Georgia	739.0	838.7	826.2	854.0	875.4	882.3	895.8	905.3	928.5	937.0
Russian Fed	325.0	326.0	328.5	330.7	343.9	352.8	363.3	367.7	388.9	394.0
Türkiye	393.9	421.9	466.4	500.3	520.0	571.4	613.4	642.6	673.4	788.6
Europe	773.7	810.7	849.3	888.1	947.7	1 003.4	1 071.9	1 170.8	1 294.8	1 414.2
Albania	620.7	660.5	707.1	728.1	754.7	838.9	888.3	917.6	969.9	1 012.6
Andorra	709.8	709.9	698.0	693.0	692.9	698.9	706.3	710.5	738.7	728.9
Austria	2 137.3	2 213.3	2 227.5	2 304.8	2 339.2	2 370.7	2 466.0	2 593.6	2 892.4	3 164.6
Belarus	10.2	23.4	31.6	41.1	43.9	52.5	53.2	68.4	69.3	67.8
Belgium	562.7	587.4	650.4	723.0	817.8	966.5	1 020.7	1 123.3	1 261.1	1 386.4
Bosnia Herzg	490.4	511.3	527.4	556.8	577.0	591.9	628.2	650.7	690.7	729.9
Bulgaria	576.2	581.6	606.1	614.5	619.1	629.3	658.9	733.1	909.0	1 062.1
Croatia	648.6	675.3	714.8	740.1	769.7	823.1	889.3	917.6	1 019.8	1 136.3
Cyprus	199.9	203.5	221.3	227.4	250.0	306.8	368.3	447.1	559.0	660.4
Czechia	400.4	400.0	404.5	403.6	412.0	417.4	425.7	442.0	511.7	601.1
Denmark	1 250.8	1 293.6	1 421.2	1 536.5	1 578.8	1 655.9	1 855.5	2 061.2	2 148.4	2 265.0
Estonia	451.5	461.3	466.9	460.3	539.3	623.2	760.5	844.4	1 065.0	1 619.9
Faroe Islands	1 225.3	1 203.7	1 186.4	1 098.3	1 016.8	1 130.1	1 205.6	1 656.3	1 964.0	1 975.5
Finland	1 120.9	1 227.2	1 362.8	1 370.6	1 424.4	1 577.7	1 708.3	2 254.5	2 505.4	2 831.1
France	657.9	686.4	728.0	764.5	803.6	835.4	885.8	936.7	1 015.2	1 117.1
North Macedonia	361.4	366.9	385.8	393.1	401.0	444.4	449.8	492.9	712.9	895.7
Germany	1 184.6	1 252.6	1 343.2	1 412.8	1 479.7	1 552.1	1 630.9	1 698.8	1 891.1	2 112.9
Greece	752.1	781.8	802.7	834.9	918.3	1 010.1	1 158.1	1 282.6	1 515.0	1 814.4
Hungary	109.4	106.8	125.1	166.7	234.1	310.2	402.3	532.3	704.0	899.9
Iceland	8 030.0	7 922.3	7 892.9	8 110.9	7 955.1	7 854.0	7 727.2	7 550.0	7 598.7	7 485.9
Ireland	584.4	653.2	763.4	831.3	922.9	962.1	976.7	1 018.7	1 145.2	1 257.1
Italy	829.6	843.6	860.1	878.7	900.2	921.3	946.6	997.6	1 088.7	1 215.2
Kosovo	24.8	46.1	68.3	68.3	79.1	87.9	90.7	112.1	163.8	165.3
Latvia	900.9	907.1	924.6	935.6	953.8	960.4	967.0	1 024.4	1 150.4	1 235.4
Lithuania	237.7	266.6	278.7	300.8	317.0	363.9	474.3	681.4	1 014.0	1 615.2
Luxembourg	419.2	515.4	533.2	532.7	622.4	681.9	787.7	874.8	1 093.6	1 279.8
Malta	172.8	211.5	242.4	275.6	309.2	356.2	381.8	404.4	431.2	439.8
Moldova Rep	21.0	21.9	25.5	33.5	35.3	37.8	50.5	83.8	137.6	177.3
Montenegro	1 053.8	1 070.3	1 204.3	1 214.1	1 298.5	1 344.3	1 353.4	1 330.1	1 313.2	1 323.2
Netherlands	336.0	418.7	458.1	566.1	716.5	1 057.7	1 317.9	1 506.2	1 819.7	2 010.1
Norway	6 241.8	6 267.0	6 301.4	6 478.3	6 718.5	7 060.7	7 282.7	7 284.3	7 260.5	7 301.0
Poland	180.7	205.7	208.4	216.4	243.7	317.4	424.1	557.9	720.7	841.3
Portugal	1 172.5	1 278.6	1 314.6	1 336.8	1 371.6	1 378.7	1 467.2	1 658.8	1 773.9	1 964.0
Romania	564.2	564.4	566.0	569.9	572.7	573.5	577.7	604.2	667.7	764.1
Serbia	340.0	345.4	350.9	384.0	417.7	423.8	432.6	451.7	483.2	506.6
Slovakia	439.7	441.6	438.8	427.9	446.0	435.7	442.1	444.4	438.0	488.7
Slovenia	689.3	683.0	716.9	712.2	725.9	766.6	806.2	880.7	1 072.9	1 209.2
Spain	1 022.6	1 023.4	1 023.6	1 026.0	1 151.8	1 202.8	1 299.8	1 556.4	1 688.1	1 847.2
Sweden	2 741.9	2 802.0	2 801.7	2 867.7	3 030.9	3 085.9	3 312.7	3 582.7	3 817.3	3 993.9
Switzerland	1 815.3	1 939.8	2 015.8	2 049.5	2 074.4	2 115.6	2 174.4	2 376.7	2 532.1	2 709.6
UK	471.1	537.8	603.4	657.7	695.3	710.1	733.0	783.3	817.2	868.6
Ukraine	133.3	135.9	143.7	164.9	271.1	308.1	336.8	363.5	387.3	188.9
Middle East	63.7	65.6	66.0	71.0	80.3	87.1	94.0	109.0	128.0	138.9
Bahrain	4.1	4.7	4.5	4.7	7.0	7.3	14.7	31.5	37.8	42.8
Iran IR	126.0	128.7	133.7	135.1	135.6	135.7	134.9	138.5	139.6	141.5
Iraq	61.5	60.1	40.5	39.6	38.7	37.9	37.0	36.3	35.5	34.7
Israel	103.9	117.9	127.8	165.5	254.1	308.1	408.2	527.3	636.5	637.1
Jordan	21.0	51.4	62.0	102.6	128.7	192.2	222.3	232.3	230.6	235.9
Kuwait	1.8	6.1	6.1	10.7	21.8	22.0	22.2	24.9	23.6	23.1
Lebanon	46.1	50.4	53.7	58.2	63.9	67.4	87.1	202.2	237.9	236.5
Oman	0.5	0.5	1.8	5.6	16.6	39.6	45.6	149.1	143.0	136.7
Palestine	2.8	5.6	7.6	8.5	16.8	23.4	34.6	36.4	35.7	36.2
Qatar	9.5	9.3	8.9	8.7	8.6	8.6	8.6	284.9	276.6	557.4
Saudi Arabia	0.8	0.8	1.2	2.9	3.7	13.3	14.1	26.2	89.8	139.7
Syrian AR	81.3	78.2	77.9	76.5	73.7	71.7	70.8	69.3	66.0	63.1
United Arab Em	15.5	15.1	38.4	64.3	206.5	247.0	306.8	352.0	570.8	620.4
Yemen	1.9	2.5	3.1	7.4	7.2	7.1	6.9	6.9	7.2	9.9

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)

(Watts per capita)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
N America	636.5	678.9	705.9	736.3	778.9	837.2	910.1	962.8	1 026.2	1 107.4
Canada	2 646.1	2 668.2	2 666.5	2 670.4	2 646.4	2 629.9	2 687.1	2 724.8	2 739.8	2 755.4
Greenland	1 640.1	1 638.9	1 638.6	1 641.9	1 641.6	1 645.3	1 650.9	1 653.1	1 655.1	1 659.7
Mexico	143.8	155.4	159.7	171.8	220.3	231.1	247.4	246.5	254.0	260.1
St Pierre Mq										
USA	597.6	653.4	691.4	730.8	777.8	861.9	957.8	1 032.1	1 121.7	1 238.7
Oceania	634.4	654.2	693.8	804.4	927.1	1 068.3	1 176.0	1 301.2	1 353.1	1 526.2
Amer Samoa	45.7	75.0	82.8	101.4	95.8	96.7	97.7	147.1	149.6	152.0
Australia	736.7	776.4	848.1	1 039.6	1 252.3	1 498.0	1 677.3	1 886.8	1 972.2	2 252.5
Cook Is	166.1	173.7	176.6	291.2	345.3	356.1	366.9	378.3	391.6	405.7
Fiji	216.3	218.4	234.4	235.5	236.1	236.5	244.8	244.5	244.4	243.2
Fr Polynesia	277.7	285.0	295.2	307.3	322.5	334.9	338.0	362.3	364.0	433.0
Guam	193.7	212.7	223.7	235.8	247.2	256.9	264.5	635.4	631.0	626.3
Kiribati	8.2	12.7	12.5	15.0	14.8	14.5	14.3	13.9	30.9	30.4
Marshall Is	21.2	34.3	36.4	37.8	38.9	40.1	41.4	44.4	48.8	85.1
Micronesia	14.8	41.3	41.2	55.4	61.4	79.0	78.5	78.2	77.8	76.9
Nauru	19.2	63.7	62.8	71.7	213.7	213.1	247.9	268.0	266.4	264.8
New Caledon	432.2	443.5	503.7	620.9	774.5	857.3	1 030.2	1 216.3	1 222.0	1 214.0
New Zealand	1 582.1	1 550.2	1 523.3	1 505.0	1 484.6	1 472.5	1 514.5	1 540.5	1 568.3	1 680.5
Niue	191.7	191.4	191.6	190.9	524.8	523.1	519.0	516.7	517.9	997.8
Palau	63.6	138.8	138.7	161.1	147.1	164.2	243.9	244.3	1 106.7	1 123.4
Papua N Guin	35.6	34.6	33.8	33.1	32.4	31.7	31.3	31.0	36.7	36.3
Samoa	64.7	94.1	116.2	125.3	140.8	142.7	141.5	151.8	150.8	149.9
Solomon Is	3.2	4.9	5.3	5.1	4.8	4.7	4.6	6.7	9.1	8.9
Tokelau	547.7	608.2	585.5	543.1	513.9	486.4	469.4	452.0	431.8	413.0
Tonga	35.6	43.2	63.8	66.6	79.6	79.5	79.7	149.4	157.7	162.5
Tuvalu	330.5	332.2	335.3	340.0	345.4	358.6	365.8	373.2	390.1	472.0
Vanuatu	30.0	34.2	35.7	40.1	41.0	41.0	40.1	38.5	38.9	38.1
S America	446.0	493.3	504.6	516.2	527.9	545.9	576.9	622.3	670.5	718.2
Argentina	242.9	242.0	242.6	257.8	281.6	312.0	333.5	334.3	348.7	342.2
Bolivia	55.2	57.8	66.6	84.3	83.7	87.0	98.6	101.6	107.2	104.5
Brazil	578.4	648.0	665.6	678.6	697.1	722.2	769.8	839.6	921.0	1 008.8
Chile	468.3	509.0	550.0	590.6	601.8	665.6	780.8	960.9	1 083.1	1 198.3
Colombia	250.3	250.5	250.8	248.8	246.3	244.7	244.3	271.6	274.5	284.4
Ecuador	159.8	281.1	281.3	308.9	304.3	302.0	299.7	302.6	303.0	302.3
Falklands Malv	991.8	971.8	960.8	960.0	961.0	964.1	966.3	968.5	972.1	977.5
Fr Guiana	650.3	638.6	627.5	616.7	616.3	612.9	633.2	621.9	629.6	623.3
Guyana	64.6	64.8	65.8	67.0	67.2	67.5	66.6	72.8	78.0	78.6
Paraguay	1 435.2	1 414.5	1 394.5	1 375.3	1 360.8	1 342.5	1 326.4	1 311.5	1 295.5	1 279.6
Peru	154.7	186.3	186.6	192.0	194.5	193.9	194.0	196.5	211.3	215.3
Suriname	320.7	317.3	314.2	312.1	308.9	305.6	304.5	302.7	301.9	301.7
Uruguay	854.0	963.4	1 096.6	1 098.2	1 100.5	1 101.2	1 104.4	1 110.4	1 210.0	1 219.2
Venezuela	497.2	549.0	552.6	569.3	583.6	593.8	602.8	603.4	601.5	599.3



IRENA Headquarters
Masdar City
P.O. Box 236 Abu Dhabi
United Arab Emirates
www.irena.org