

RENEWABLE CAPACITY STATISTICS 2025

STATISTIQUES DE CAPACITÉ RENOUVELABLE 2025

ESTADÍSTICAS DE CAPACIDAD RENOVABLE 2025

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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

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

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FOREWORD

The IRENA Renewable Capacity Statistics 2025 highlights the continued progress made in the global energy transition. This latest edition illustrates the growth of renewables in newly installed power generation capacity in 2024.

By the end of 2024, renewables accounted for 46% of global installed power capacity. Yet, even as renewable energy almost accounts for half of total capacity, many energy planning questions still need to be addressed to establish renewables as the most significant source of electricity generation - including in the context of grid flexibility and adaptation to variable renewable power.

Continuing the trend reported in recent years, 2024 saw the largest increase in renewable energy capacity to date - with the addition of 585 gigawatts (GW) of renewables - expanding the stock of renewable power by 15.1%. Renewables accounted for a record 92.5% of global power additions, largely due to significant growth in solar and wind power. Solar power alone accounted for over three-quarters of renewable additions, with a record 452 GW added during the year; while 113 GW of wind energy was added.

However, significant disparities remain in deployment. China, the United States, and the European Union account for 489 GW (or 83.6%) of all new renewable capacity installed in 2024; Africa accounted for 4.2 GW (or 0.7%). And despite capacity growing by 9.3% during the year, small island developing states, with a combined renewable energy capacity of 9 GW, comprise just 0.2% of the worldwide total.

Despite record renewable additions in 2024, current growth rates indicate the world is not on track to triple installed renewable power capacity to 11 TW by 2030. With just 6 years remaining to meet the goal adopted at COP 28 to triple installed renewable power capacity by 2030, the world now needs additions in excess of 1 120 GW each year for the rest of this decade to keep the world on a 1.5°C pathway in accordance with the *World Energy Transitions Outlook 1.5°C Scenario*.

Looking ahead, we need to see a much faster pace of growth in the stock of renewable power plants and distributed electricity generation around the world.

This report is a valuable resource for tracking progress and a reminder of the work that lies ahead to achieve a just, inclusive, and sustainable future for all.

Francesco La Camera
Director-General
International Renewable Energy Agency

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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. The data is presented in megawatts (MW) rounded to the nearest one megawatt, with figures between zero and 0.5MW shown as a 0.

Data has 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 data from the IRENA questionnaire is presented without any indicator.

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. Les données sont exprimées en mégawatts (MW) arrondies à l'unité la plus proche ; les valeurs inférieures à 0,5 MW apparaissent comme 0.

Les données proviennent de sources multiples, y compris : 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" correspond à des valeurs venant de sources non officielles comme des rapports d'associations de l'industrie ou des articles de journaux. La lettre "e" correspond à des 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 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. Los datos se presentan en megavatios (MW) redondeados al megavatio entero más cercano, con cifras entre cero y 0,5 MW representadas como un 0.

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 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 Centroatricana
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	Gambia	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

Label/En-tête/Rótulo	English	Français	Español
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
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 Darism	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 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	Curacao
Dominica	Dominica	Dominique	Dominica
Dominican Rep	Dominican Republic	République dominicaine	República Dominicana

Label/En-tête/Rótulo	English	Français	Español
El Salvador	El Salvador	El Salvador	El Salvador
Grenada	Grenada	Grenade	Granada
Guadeloupe	Guadeloupe	Guadeloupe	Guadalupe
Guatemala	Guatemala	Guatemala	Guatemala
Haiti	Haiti	Haïti	Haití
Honduras	Honduras	Honduras	Honduras
Jamaica	Jamaica	Jamaïque	Jamaica
Martinique	Martinique	Martinique	Martinica
Montserrat	Montserrat	Montserrat	Montserrat
Nicaragua	Nicaragua	Nicaragua	Nicaragua
Panama	Panama	Panama	Panamá
Puerto Rico	Puerto Rico	Porto Rico	Puerto Rico
St Barth	Saint Barthélemy	Saint Barthélemy	San Bartolomé
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	Saint Martin (partie néerlandaise)	San Martín (parte neerlandesa)
St Martin	Saint Martin	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	Azerbaiyán
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	Czech Republic	République tchèque	República Checa
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

Label/En-tête/Rótulo	English	Français	Español
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
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	Océanie	OCEANÍA
Amer Samoa	American Samoa	Samoa américaines	Samoa americana
Australia	Australia	Australie	Australia
Christmas Is	Christmas Island	Île Christmas	Isla de Navidad
Cocos Is	Cocos (Keeling) Islands	Îles Cocos	Islas Cocos
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

Label/En-tête/Rótulo	English	Français	Español
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	Wallis-et-Futuna	Wallis y Futuna
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
South Georgia	South Georgia and the South Sandwich Islands	Géorgie du Sud-et-les Îles Sandwich du Sud	Georgia del Sur y las Islas Sandwich del Sur
Suriname	Suriname	Suriname	Surinam
Uruguay	Uruguay	Uruguay	Uruguay
Venezuela	Venezuela (Bolivarian Republic of)	Venezuela (République bolivarienne du)	La República Bolivariana de Venezuela

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

Total capacity

Capacité totale

Capacidad total

Total renewable energy

Total énergies renouvelables

Total energías renovables

CAP (MW)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
World	1 851 114	2 019 709	2 187 425	2 358 285	2 542 854	2 812 981	3 075 931	3 378 790	3 862 881	4 448 051
Africa	34 776	37 498	42 861	48 189	50 315	53 679	55 580	59 291	62 672	66 898
Algeria	300	500	593	605	605	585	506	590	601	601
Angola	1 020	1 752	2 445	3 113	3 448	3 782	3 782	4 066	4 091	4 142
Benin	2	3	3	3	4	5	7	34	36	36
Botswana	2	3	3	4	6	6	6	6	10	10
Burkina Faso	36	36	71	87	91	91	92	123	212	241
Burundi	55	56	54	54	54	54	61	76	77	77
Cabo Verde	33	33	33	38	41	42	44	50	53	58
Cameroon	732	732	744	744	825	826	839	840	877	877
Cent Afr Rep	19	19	19	19	19	19	19	19	59	59
Chad	2	3	3	4	4	4	5	5	5	5
Comoros	1	2	3	3	3	3	5	4	5	5
Congo DR	2 419	2 434	2 448	2 609	2 620	2 625	2 628	2 958	3 216	3 216
Congo Rep	206	213	226	226	226	227	227	227	227	227
Cote d'Ivoire	604	604	880	881	883	885	887	888	919	919
Djibouti	0	0	0	0	0	0	20	20	80	80
Egypt	3 658	3 681	3 802	4 793	5 690	5 934	6 258	6 322	6 709	7 752
Eq Guinea	126	126	126	127	127	127	127	127	127	127
Eritrea	9	10	24	27	27	27	26	26	26	26
Eswatini	168	168	168	168	168	168	178	178	178	178
Ethiopia	2 619	2 649	4 366	4 451	4 451	4 713	4 759	5 589	5 545	6 345
Gabon	332	332	332	332	332	332	332	332	332	343
Gambia	2	2	3	3	3	3	3	3	3	26
Ghana	1 625	1 629	1 635	1 665	1 676	1 700	1 758	1 761	1 780	1 780
Guinea	369	369	370	382	378	604	829	830	831	831
Guinea Bissau	0	1	1	2	2	2	2	2	2	2
Kenya	1 560	1 629	1 671	2 059	2 086	2 298	2 473	2 661	2 748	2 791
Lesotho	75	75	75	75	75	75	75	75	103	104
Liberia	5	27	94	94	95	96	96	96	97	97
Libya	5	5	5	5	5	5	6	6	8	8
Madagascar	165	165	166	186	188	189	189	245	251	251
Malawi	393	394	395	395	396	398	477	519	520	520
Mali	327	328	366	366	367	418	449	593	593	635
Mauritania	53	69	69	121	122	122	122	123	260	294
Mauritius	172	188	195	238	263	271	274	272	288	302
Mayotte	13	13	15	16	17	19	30	30	31	32
Morocco	2 307	2 417	2 539	3 272	3 272	3 522	3 638	3 725	4 105	4 375
Mozambique	2 268	2 269	2 269	2 269	2 311	2 314	2 314	2 356	2 371	2 375
Namibia	339	371	415	444	496	501	501	526	519	519
Niger	6	7	7	14	14	15	15	50	83	83
Nigeria	2 129	2 135	2 140	2 145	2 157	2 176	2 205	2 234	3 025	3 026
Reunion	380	383	384	428	436	445	463	470	475	475
Rwanda	105	110	115	117	131	143	144	151	152	182
Sao Tome Prn	2	2	2	2	2	2	2	2	2	2
Senegal	57	101	142	184	265	369	436	439	439	481
Seychelles	7	9	10	11	11	14	23	24	24	24
Sierra Leone	90	91	96	96	99	101	109	115	115	115
Somalia	3	4	5	6	6	14	22	46	49	49
South Africa	3 430	4 652	6 552	7 911	8 014	9 523	9 827	10 505	10 623	11 129
South Sudan	0	1	1	2	2	3	3	3	16	30
Sudan	1 541	1 547	1 557	1 740	1 761	1 798	1 817	1 871	1 871	1 871
Tanzania	660	667	673	683	682	687	691	692	773	1 478
Togo	67	67	67	71	74	77	131	133	134	134
Tunisia	330	340	349	375	391	406	406	508	817	1 084
Uganda	761	764	808	891	1 165	1 181	1 184	1 210	1 610	1 814
Zambia	2 312	2 433	2 444	2 447	2 537	2 539	2 846	3 306	3 342	3 404
Zimbabwe	875	879	885	1 189	1 192	1 194	1 213	1 226	1 226	1 250

Total renewable energy

Total énergies renouvelables

Total energías renovables

CAP (MW)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Asia	722 693	813 291	920 347	1 025 168	1 125 194	1 301 391	1 456 183	1 631 015	1 960 961	2 382 468
Afghanistan	303	350	372	372	402	401	418	522	522	522
Bangladesh	474	443	495	518	558	622	784	801	1 024	1 124
Bhutan	1 615	1 615	1 615	1 615	2 335	2 335	2 335	2 335	2 336	2 456
Brunei Darism	1	1	1	1	1	1	5	5	5	5
Cambodia	1 000	1 004	1 087	1 449	1 546	1 731	1 792	1 888	1 892	2 288
China	479 103	541 016	620 856	695 463	758 870	896 412	1 017 852	1 156 126	1 453 701	1 827 270
China HK SAR	1	1	47	47	143	145	149	244	393	393
Chinese Taipei	4 015	4 411	4 944	5 939	7 482	9 250	11 294	13 815	17 622	20 719
India	78 582	90 414	105 258	118 227	128 475	134 774	147 390	163 213	175 684	204 292
Indonesia	8 575	9 065	9 459	9 807	10 303	10 465	11 533	12 596	13 325	14 295
Japan	66 905	75 563	83 598	90 723	98 685	107 935	115 170	122 922	128 782	132 317
Kazakhstan	2 807	2 851	2 898	3 088	3 606	4 190	4 536	5 069	5 663	5 419
Korea DPR	4 491	4 735	4 799	4 842	4 857	4 946	4 969	5 008	5 041	5 055
Korea Rep	7 076	9 163	11 173	13 444	17 621	22 092	24 422	27 271	30 504	33 782
Kyrgyzstan	3 677	3 677	3 689	3 673	3 673	3 674	2 780	2 780	3 143	3 258
Lao PDR	4 434	4 910	5 156	5 543	6 385	8 185	9 142	9 832	9 957	10 370
Malaysia	7 816	7 930	7 026	7 460	7 903	8 563	8 909	9 295	9 311	9 471
Maldives	6	9	12	18	31	41	42	54	57	70
Mongolia	93	105	188	260	285	288	288	288	292	328
Myanmar	3 259	3 344	3 358	3 374	3 417	3 413	3 439	3 509	3 509	3 544
Nepal	811	832	978	1 101	1 221	1 352	2 069	2 316	2 799	3 475
Pakistan	8 128	8 808	9 224	12 204	12 349	12 567	12 890	14 156	14 165	15 201
Philippines	5 698	6 342	6 503	6 681	6 864	7 082	7 415	7 777	7 971	9 300
Singapore	215	266	286	331	437	494	657	861	1 163	1 374
Sri Lanka	1 876	1 953	2 057	2 181	2 332	2 457	2 723	2 929	3 110	3 612
Tajikistan	4 957	4 957	4 958	4 958	5 718	5 719	5 719	5 737	5 737	5 738
Thailand	7 903	9 370	10 149	11 216	11 701	11 844	12 404	12 542	12 594	12 604
Timor Leste	2	2	1	1	1	1	1	1	1	1
Turkmenistan	1	1	1	1	1	1	2	2	2	2
Uzbekistan	1 882	1 883	1 861	1 919	1 912	2 025	2 056	2 429	2 857	5 166
Viet Nam	16 990	18 271	18 296	18 713	26 084	38 386	43 000	44 691	47 799	49 015
C America + Carib	11 887	13 201	14 033	14 984	15 889	16 428	17 063	17 612	18 669	19 272
Anguilla	1	2	2	1	2	2	2	2	2	2
Antigua Barb	3	4	4	9	9	13	15	15	16	16
Aruba	38	39	39	45	45	45	45	45	45	46
Bahamas	4	4	4	4	6	6	11	16	17	24
Barbados	3	15	16	17	33	49	64	71	71	71
Belize	83	83	91	92	98	98	98	98	98	98
BES Islands	11	13	16	17	18	18	18	18	19	24
Br Virgin Is	1	1	1	1	2	2	2	2	3	3
Cayman Is		3	9	11	12	14	15	15	15	15
Costa Rica	2 489	2 917	2 981	3 081	3 144	3 123	3 182	3 137	3 196	3 171
Cuba	541	522	598	672	606	775	813	791	804	816
Curacao	40	41	58	59	59	60	60	60	61	84
Dominica	7	8	8	7	7	7	7	7	8	8
Dominican Rep	742	840	924	1 071	1 411	1 462	1 660	1 860	2 201	2 564
El Salvador	915	971	1 159	1 252	1 491	1 593	1 674	1 705	1 852	1 858
Grenada	1	2	2	3	3	4	4	4	4	4
Guadeloupe	150	151	156	175	191	206	218	225	227	228
Guatemala	2 176	2 595	2 684	2 833	2 863	2 864	2 693	2 698	2 704	2 704
Haiti	60	61	61	83	83	83	83	81	82	82
Honduras	1 359	1 481	1 614	1 698	1 746	1 865	1 881	1 941	1 941	1 966
Jamaica	111	192	220	220	271	271	272	274	277	281
Martinique	70	71	73	116	134	135	140	140	148	152
Montserrat					0	0	1	1	1	1
Nicaragua	613	661	674	674	731	731	732	746	748	766
Panama	2 032	2 051	2 112	2 308	2 354	2 383	2 647	2 781	2 933	3 031
Puerto Rico	406	443	502	505	537	583	689	841	1 157	1 193
St Barth		0	0	0	0	0	0	0	0	1
St Kitts Nevis	4	4	4	4	4	5	5	5	5	7
St Lucia	1	1	1	4	4	4	4	4	4	5
St Martin	3	2	0	0	1	1	1	2	2	2
St Vincent Gren	8	8	8	9	10	10	10	10	11	11
Trinidad Tobago	4	4	4	4	4	4	4	4	4	5
Turks Caicos	0	0	0	0	1	1	3	3	4	4
US Virgin Is	9	9	5	10	10	10	10	10	10	31

Total renewable energy

Total énergies renouvelables

Total energías renovables

CAP (MW)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Eurasia	83 980	87 648	92 432	96 532	100 762	106 876	112 367	115 822	122 311	130 624
Armenia	1 289	1 316	1 332	1 357	1 364	1 403	1 494	1 583	1 762	1 839
Azerbaijan	1 154	1 184	1 194	1 277	1 289	1 296	1 316	1 325	1 688	1 801
Georgia	2 802	3 180	3 134	3 241	3 324	3 349	3 394	3 436	3 535	3 568
Russian Fed	47 219	47 522	48 026	48 428	50 397	51 633	52 988	53 532	56 562	54 433
Türkiye	31 516	34 446	38 746	42 230	44 389	49 195	53 175	55 946	58 764	68 984
Europe	463 982	487 282	511 310	535 501	572 231	606 045	647 049	705 139	778 511	848 627
Albania	1 799	1 914	2 049	2 107	2 177	2 409	2 531	2 595	2 727	2 827
Andorra	51	51	51	52	53	54	55	57	60	60
Austria	18 475	19 340	19 599	20 378	20 774	21 150	22 113	23 510	26 409	28 864
Belarus	97	222	300	390	415	491	492	628	632	614
Belgium	6 345	6 657	7 399	8 262	9 397	11 153	11 810	13 078	14 771	16 275
Bosnia Herzg	1 725	1 776	1 808	1 886	1 930	1 953	2 039	2 085	2 200	2 310
Bulgaria	4 136	4 145	4 289	4 316	4 319	4 364	4 532	5 004	6 177	7 177
Croatia	2 713	2 793	2 916	2 979	3 068	3 255	3 490	3 585	3 973	4 403
Cyprus	244	252	278	289	322	400	485	595	752	895
Czechia	4 214	4 212	4 264	4 257	4 349	4 403	4 482	4 717	5 531	6 453
Denmark	7 109	7 410	8 194	8 902	9 180	9 656	10 867	12 167	12 779	13 539
Estonia	594	607	615	609	716	829	1 013	1 140	1 456	2 204
Faroe Islands	60	60	60	56	53	59	64	89	107	109
Finland	6 142	6 744	7 507	7 560	7 865	8 724	9 466	12 556	14 033	15 903
France	42 706	44 676	47 526	50 090	52 819	55 055	58 534	62 080	67 447	74 340
Germany	97 228	103 665	111 625	117 782	123 641	129 800	136 502	142 842	159 886	178 655
Greece	8 138	8 424	8 632	8 960	9 843	10 807	12 252	13 355	15 518	18 231
Hungary	1 077	1 048	1 224	1 630	2 288	3 024	3 906	5 155	6 819	8 708
Iceland	2 658	2 659	2 711	2 862	2 869	2 879	2 879	2 872	2 945	2 945
Ireland	2 748	3 105	3 672	4 051	4 553	4 794	4 911	5 206	5 951	6 606
Italy	50 252	51 022	51 944	52 963	54 126	55 195	56 541	59 478	64 777	72 115
Kosovo*	44	81	121	121	139	154	158	192	278	278
Latvia	1 782	1 778	1 796	1 804	1 826	1 826	1 823	1 927	2 165	2 312
Lithuania	691	765	788	843	886	1 017	1 325	1 919	2 894	4 618
Luxembourg	239	301	318	324	386	430	504	572	727	861
Malta	77	96	113	134	156	185	200	214	230	237
Moldova Rep	69	71	81	106	110	116	153	255	422	538
Montenegro	662	668	747	748	794	817	817	818	832	845
Netherlands	5 748	7 203	7 933	9 863	12 565	18 655	23 366	26 967	32 922	36 641
North Macedonia	716	720	749	755	761	832	833	907	1 306	1 633
Norway	32 394	32 814	33 251	34 411	35 929	37 981	39 386	39 749	40 091	40 735
Poland	6 914	7 872	7 971	8 275	9 317	12 115	16 132	21 415	27 935	32 423
Portugal	12 160	13 229	13 581	13 803	14 186	14 298	15 245	17 280	18 503	20 476
Romania	11 212	11 162	11 145	11 169	11 169	11 121	11 120	11 580	12 766	14 529
Serbia	2 440	2 461	2 482	2 695	2 910	2 928	2 957	3 067	3 273	3 413
Slovakia	2 384	2 397	2 385	2 329	2 431	2 377	2 406	2 433	2 417	2 691
Slovenia	1 420	1 408	1 479	1 474	1 512	1 612	1 704	1 863	2 273	2 562
Spain	47 740	47 825	47 975	48 316	54 636	57 348	62 048	74 441	80 881	88 498
Sweden	26 869	27 805	28 179	29 180	31 156	31 951	34 505	37 573	40 278	42 363
Switzerland	15 006	16 212	17 003	17 414	17 753	18 236	18 882	20 851	22 630	24 344
UK	30 800	35 437	40 020	43 906	46 664	47 828	49 600	53 406	56 127	58 247
Ukraine	6 105	6 199	6 530	7 455	12 189	13 764	14 921	14 921	14 612	7 150
European Union (27)	369 984	386 548	403 935	421 228	448 225	476 295	512 086	563 449	631 099	703 417
Middle East	15 905	16 719	17 087	18 645	21 432	23 618	25 876	30 733	36 901	40 219
Bahrain	6	7	7	7	10	11	22	48	59	69
Iran IR	10 411	10 783	11 367	11 638	11 803	11 901	11 930	12 399	12 653	12 961
Iraq	2 311	2 311	1 594	1 594	1 594	1 594	1 594	1 599	1 599	1 599
Israel	837	968	1 068	1 408	2 200	2 711	3 650	4 800	5 891	5 981
Jordan	200	514	635	1 074	1 374	2 088	2 460	2 615	2 638	2 725
Kuwait	7	24	25	46	97	97	97	114	114	114
Lebanon	298	318	331	347	368	382	482	1 167	1 297	1 297
Oman	2	2	8	26	76	179	205	705	722	722
Palestine	12	25	35	40	82	118	178	192	192	198
Qatar	23	24	24	24	24	24	24	824	824	1 699
Saudi Arabia	24	24	37	87	112	412	442	843	2 988	4 743
Syrian AR	1 579	1 501	1 497	1 499	1 500	1 509	1 530	1 557	1 557	1 557
United Arab Em	134	136	354	601	1 936	2 334	3 003	3 606	6 075	6 144
Yemen	60	81	103	253	254	258	258	264	290	410

Total renewable energy

Total énergies renouvelables

Total energías renovables

CAP (MW)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
N America	309 486	333 151	349 639	367 827	392 949	424 732	462 211	492 473	527 110	573 005
Canada	95 973	97 881	99 131	100 743	101 328	101 812	103 808	106 359	108 862	110 470
Greenland	92	92	92	92	92	92	93	93	93	93
Mexico	17 412	19 004	19 701	21 398	27 709	29 301	31 577	31 708	32 950	34 036
USA	196 009	216 174	230 714	245 595	263 821	293 527	326 733	354 314	385 205	428 405
Oceania	25 742	27 025	29 178	34 410	40 297	47 038	52 345	58 781	65 108	73 777
Amer Samoa	2	4	4	5	5	5	5	7	7	7
Australia	17 641	18 889	20 975	26 114	31 911	38 563	43 535	49 437	55 504	63 510
Cook Is	3	3	3	5	6	6	6	6	6	6
Fiji	199	201	215	216	216	216	224	225	226	226
Fr Polynesia	77	80	83	86	90	94	95	102	102	122
Guam	32	35	37	38	40	42	43	105	105	105
Kiribati	2	3	2	3	3	2	2	2	2	2
Marshall Is	1	2	2	2	2	2	2	2	2	3
Micronesia	2	5	5	6	6	6	6	6	6	6
Nauru	0	1	1	1	2	2	3	3	3	3
New Caledon	123	126	143	177	220	244	295	350	355	356
New Zealand	7 300	7 309	7 331	7 375	7 407	7 465	7 735	8 128	8 297	8 933
Niue	0	0	0	0	1	1	1	1	1	2
Palau	1	2	2	3	3	3	4	4	20	20
Papua N Guin	327	325	325	326	326	327	328	331	397	399
Samoa	13	19	24	26	30	30	30	33	33	33
Solomon Is	2	3	4	4	4	4	4	5	7	7
Tokelau	1	1	1	1	1	1	1	1	1	1
Tonga	4	5	7	7	8	8	8	16	16	17
Tuvalu	4	4	4	4	4	4	4	4	4	5
Vanuatu	8	9	10	12	13	13	13	13	14	14
S America	182 664	203 893	210 539	217 027	223 784	233 174	247 257	267 923	290 636	313 162
Argentina	10 562	10 623	10 743	11 510	12 663	14 101	15 110	15 181	15 878	15 637
Bolivia	609	648	755	971	976	1 027	1 177	1 228	1 313	1 298
Brazil	116 653	131 694	136 248	139 869	144 608	150 687	161 300	176 580	194 456	213 857
Chile	8 444	9 253	10 297	11 139	11 741	13 383	15 361	18 821	21 556	23 975
Colombia	11 757	11 884	12 072	12 196	12 293	12 390	12 505	14 050	14 360	15 039
Ecuador	2 599	4 640	4 715	5 267	5 277	5 298	5 300	5 394	5 448	5 481
Falklands Malv	3	3	3	3	3	3	3	3	3	3
Fr Guiana	173	173	173	173	176	177	186	186	191	192
Guyana	49	49	51	53	54	55	54	60	64	65
Paraguay	8 839	8 839	8 839	8 839	8 865	8 866	8 866	8 867	8 867	8 867
Peru	4 711	5 751	5 847	6 123	6 312	6 368	6 431	6 578	7 187	7 404
South Georgia	0	0	0	0	0	0	0	0	0	0
Suriname	187	187	187	187	187	187	188	189	190	191
Uruguay	2 876	3 255	3 716	3 728	3 739	3 743	3 751	3 765	4 100	4 129
Venezuela	15 201	16 892	16 892	16 969	16 889	16 889	17 023	17 023	17 023	17 024

Hydropower Hydroélectricité Hidroeléctrica

CAP (MW)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
World	1 211 245	1 253 269	1 274 605	1 294 120	1 310 606	1 332 363	1 359 536	1 393 299	1 409 865	1 425 374
Africa	29 094	31 022	34 113	35 484	36 183	37 002	37 483	39 229	40 782	42 871
Algeria	228	228	228	228	228	209	129	129	129	129
Angola	969	1 700	2 393	3 061	3 395	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	32	34	34
Burundi	51	51	48	48	48	48	48	63	63	63
Cameroon	732	732	732	732	813	813	813	814	814	814
Cent Afr Rep	19	19	19	19	19	19	19	19	19	19
Comoros	1	1	1	1	1	1	1	1	1	1
Congo DR	2 417	2 429	2 440	2 598	2 608	2 608	2 608	2 932	3 188	3 188
Congo Rep	194	201	214	214	214	214	214	214	214	214
Cote d'Ivoire	604	604	879	879	879	879	879	879	879	879
Egypt	2 800	2 800	2 800	2 832	2 832	2 832	2 832	2 832	2 832	2 832
Eq Guinea	126	126	126	127	127	127	127	127	127	127
Eswatini	62	62	62	62	62	62	62	62	62	62
Ethiopia	2 159	2 159	3 817	3 817	3 817	4 071	4 071	4 821	4 883	5 683
Gabon	331	331	331	331	331	331	331	331	331	331
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	369	364	589	814	814	814	814
Kenya	827	830	841	845	852	854	858	858	860	859
Lesotho	74	74	74	74	74	74	74	74	74	75
Liberia	5	27	93	93	93	93	93	93	93	93
Madagascar	164	164	164	164	164	164	164	192	193	193
Malawi	372	373	373	373	373	373	393	393	393	393
Mali	315	315	315	315	315	315	315	455	455	455
Mauritius	61	61	61	61	61	61	61	61	62	62
Morocco	1 770	1 770	1 770	1 770	1 770	1 770	1 770	1 770	1 770	2 120
Mozambique	2 192	2 193	2 193	2 193	2 193	2 194	2 194	2 194	2 194	2 194
Namibia	330	347	347	347	347	351	351	351	351	351
Nigeria	2 111	2 111	2 111	2 111	2 111	2 111	2 111	2 111	2 861	2 861
Reunion	134	133	133	133	133	133	134	134	134	134
Rwanda	94	98	98	98	108	118	118	124	124	153
Sao Tome Prn	2	2	2	2	2	2	2	2	2	2
Sierra Leone	56	56	61	61	61	61	61	61	61	61
South Africa	2 148	3 147	3 480	3 480	3 480	3 480	3 484	3 484	3 484	3 484
Sudan	1 322	1 322	1 322	1 482	1 482	1 482	1 482	1 482	1 482	1 482
Tanzania	579	587	589	595	596	598	599	599	680	1 385
Togo	67	67	67	67	67	67	67	67	67	67
Tunisia	62	62	62	66	66	66	66	66	66	66
Uganda	692	692	703	741	1 001	1 008	1 008	1 029	1 429	1 634
Zambia	2 268	2 388	2 398	2 398	2 399	2 400	2 706	3 165	3 165	3 165
Zimbabwe	772	776	780	1 080	1 080	1 080	1 080	1 080	1 080	1 080
Asia	501 106	516 807	530 823	543 955	555 017	570 484	594 316	620 063	629 807	647 978
Afghanistan	284	329	349	349	349	349	366	468	468	468
Bangladesh	230	230	230	230	230	230	230	230	230	230
Bhutan	1 614	1 614	1 614	1 614	2 334	2 334	2 334	2 334	2 334	2 452
Cambodia	930	930	980	1 330	1 330	1 330	1 330	1 332	1 332	1 337
China	319 530	332 070	343 775	352 261	358 040	370 160	390 920	413 500	421 540	435 940
China HK SAR	1	1	1	1	1	1	1	1	1	1
Chinese Taipei	4 691	4 691	4 691	4 693	4 694	4 695	4 696	4 700	4 706	4 725
India	47 105	47 622	49 521	50 102	50 279	50 763	51 566	52 009	52 122	52 293
Indonesia	5 322	5 666	5 703	5 772	5 976	6 121	6 602	6 689	6 570	7 225
Japan	50 035	50 058	50 015	50 037	50 033	50 033	49 929	50 008	50 026	50 044
Kazakhstan	2 678	2 696	2 726	2 756	2 778	2 785	2 807	2 807	2 903	2 810
Korea DPR	4 467	4 701	4 761	4 790	4 790	4 865	4 865	4 890	4 910	4 910
Korea Rep	6 472	6 490	6 494	6 498	6 509	6 507	6 521	6 513	6 505	6 503
Kyrgyzstan	3 677	3 677	3 689	3 673	3 673	3 674	2 780	2 780	3 143	3 258
Lao PDR	4 393	4 869	5 109	5 387	6 229	8 018	8 961	9 651	9 776	10 189
Malaysia	6 039	6 116	5 895	6 169	6 191	6 189	6 218	6 227	6 227	6 227
Mongolia	29	31	31	31	31	29	29	29	29	29
Myanmar	3 190	3 262	3 262	3 269	3 269	3 269	3 269	3 269	3 269	3 269
Nepal	791	811	916	1 038	1 159	1 281	1 971	2 197	2 675	3 293
Pakistan	7 221	7 254	7 406	9 906	9 925	10 045	10 045	10 636	10 645	11 529
Philippines	3 614	3 624	3 634	3 720	3 763	3 781	3 784	3 775	3 832	3 869
Sri Lanka	1 688	1 726	1 745	1 797	1 813	1 797	1 801	1 831	1 836	1 846
Tajikistan	4 957	4 957	4 958	4 958	5 718	5 718	5 718	5 737	5 737	5 737
Thailand	3 639	3 649	3 649	3 668	3 668	3 671	3 671	3 686	3 693	3 693
Timor Leste	0	0	0	0	0	0	0	0	0	0
Turkmenistan	1	1	1	1	1	1	2	2	2	2
Uzbekistan	1 880	1 880	1 858	1 915	1 908	2 021	2 052	2 225	2 382	2 391
Viet Nam	16 628	17 849	17 809	17 989	20 326	20 817	21 847	22 535	22 915	23 707

Hydropower Hydroélectricité Hidroeléctrica

CAP (MW)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
C America + Carib	6 964	7 615	7 762	8 046	8 158	8 275	8 328	8 373	8 487	8 474
Belize	55	55	55	55	55	55	55	55	55	55
Costa Rica	1 936	2 329	2 329	2 373	2 344	2 332	2 379	2 331	2 372	2 353
Cuba	67	70	70	68	68	68	68	69	69	69
Dominica	7	7	7	7	7	7	7	7	8	8
Dominican Rep	613	613	614	616	625	625	625	624	624	625
El Salvador	497	495	574	575	576	574	572	572	638	643
Guadeloupe	9	9	11	11	11	11	11	11	11	11
Guatemala	1 087	1 393	1 438	1 502	1 575	1 578	1 572	1 574	1 575	1 575
Haiti	58	58	58	80	80	80	80	78	78	78
Honduras	638	677	682	713	736	844	856	916	916	916
Jamaica	30	30	30	30	30	30	30	30	30	30
Martinique					0	0				
Nicaragua	138	142	142	142	157	157	158	159	160	160
Panama	1 725	1 632	1 647	1 770	1 791	1 810	1 810	1 845	1 847	1 848
Puerto Rico	98	98	98	98	98	98	98	98	98	98
St Vincent Gren	6	6	6	6	6	6	6	6	6	6
Eurasia	78 915	80 344	81 269	82 485	84 158	86 718	87 304	87 566	90 912	88 870
Armenia	1 287	1 312	1 327	1 336	1 340	1 350	1 345	1 345	1 358	1 351
Azerbaijan	1 103	1 105	1 106	1 131	1 145	1 149	1 157	1 165	1 302	1 407
Georgia	2 802	3 160	3 113	3 220	3 300	3 323	3 354	3 379	3 450	3 414
Russian Fed	47 855	48 086	48 450	48 506	49 870	49 912	49 955	50 106	52 840	50 312
Türkiye	25 868	26 681	27 273	28 291	28 503	30 984	31 493	31 571	31 962	32 386
Europe	214 429	217 976	219 589	220 632	221 563	223 093	224 230	226 661	227 202	225 275
Albania	1 798	1 913	2 047	2 105	2 162	2 387	2 507	2 493	2 519	2 519
Andorra	46	46	46	46	46	46	46	46	46	46
Austria	13 650	14 116	14 150	14 516	14 597	14 635	14 748	14 924	14 953	15 071
Belarus	34	74	95	95	95	96	96	96	97	86
Belgium	1 419	1 416	1 414	1 415	1 411	1 413	1 418	1 430	1 431	1 435
Bosnia Herzg	2 137	2 180	2 211	2 236	2 239	2 249	2 257	2 258	2 262	2 288
Bulgaria	3 219	3 223	3 372	3 379	3 378	3 376	3 369	3 348	3 350	3 350
Croatia	2 195	2 192	2 193	2 200	2 200	2 200	2 201	2 206	2 190	2 190
Czechia	2 260	2 262	2 265	2 264	2 265	2 265	2 285	2 285	2 288	2 289
Denmark	7	9	7	7	7	7	7	7	7	7
Estonia	6	6	7	7	6	8	6	8	10	10
Faroe Islands	39	39	39	40	40	40	40	40	40	40
Finland	3 133	3 133	3 156	3 152	3 157	3 164	3 171	3 171	3 169	3 191
France	25 552	25 621	25 707	25 727	25 868	25 954	25 991	25 964	26 325	26 846
Germany	11 255	11 207	11 120	10 684	10 733	10 808	10 844	10 923	10 951	11 124
Greece	3 392	3 392	3 392	3 409	3 412	3 417	3 421	3 421	3 459	3 437
Hungary	57	57	57	57	58	58	60	60	60	60
Iceland	1 987	1 987	1 995	2 099	2 104	2 114	2 114	2 105	2 147	2 147
Ireland	529	529	529	529	529	529	529	529	529	529
Italy	22 220	22 298	22 426	22 499	22 541	22 695	22 750	22 861	22 912	22 939
Kosovo*	43	78	80	80	95	110	110	110	122	122
Latvia	1 588	1 564	1 564	1 565	1 587	1 586	1 587	1 588	1 588	1 588
Lithuania	877	877	877	877	877	877	877	877	877	849
Luxembourg	1 330	1 330	1 331	1 330	1 330	1 331	1 331	1 330	1 330	1 330
Moldova Rep	64	64	64	64	64	64	64	64	65	65
Montenegro	662	668	675	676	676	697	697	697	697	697
Netherlands	37	37	37	37	37	37	38	38	38	38
North Macedonia	658	661	688	693	698	706	706	713	713	713
Norway	31 372	31 817	31 912	32 530	32 797	33 732	34 075	34 269	34 291	34 698
Poland	2 370	2 385	2 390	2 391	2 397	2 400	2 398	2 407	2 410	2 347
Portugal	6 168	6 960	7 226	7 236	7 262	7 241	7 255	8 189	8 187	8 347
Romania	6 730	6 734	6 692	6 701	6 686	6 652	6 662	6 663	6 687	6 680
Serbia	3 022	3 030	3 038	3 043	3 074	3 082	3 085	3 107	3 125	3 127
Slovakia	2 522	2 524	2 523	2 528	2 527	2 529	2 531	2 532	2 531	2 531
Slovenia	1 295	1 293	1 347	1 343	1 351	1 352	1 352	1 346	1 351	1 372
Spain	20 053	20 080	20 079	20 080	20 114	20 117	20 132	20 137	20 140	20 140
Sweden	16 329	16 466	16 502	16 431	16 462	16 406	16 407	16 399	16 406	16 506
Switzerland	13 815	14 806	15 353	15 542	15 574	15 594	15 612	16 568	16 782	16 782
UK	4 677	4 733	4 770	4 777	4 780	4 785	4 790	4 790	4 790	4 790
Ukraine	5 883	6 167	6 213	6 243	6 325	6 334	6 662	6 662	6 327	2 950
European Union (27)	148 455	149 974	150 626	150 628	151 057	151 321	151 634	152 907	153 445	154 472
Middle East	15 665	15 881	15 535	15 681	15 764	16 074	16 072	16 422	16 598	16 700
Iran IR	11 278	11 578	11 953	12 099	12 182	12 193	12 193	12 543	12 719	12 821
Iraq	2 514	2 514	1 797	1 797	1 797	1 797	1 797	1 797	1 797	1 797
Israel	7	7	7	7	7	306	306	306	306	306
Jordan	12	6	6	6	6	6	4	4	4	4
Lebanon	282	282	282	282	282	282	282	282	282	282
Syrian AR	1 572	1 494	1 490	1 490	1 490	1 490	1 490	1 490	1 490	1 490

Hydropower Hydroélectricité Hidroeléctrica

CAP (MW)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
N America	194 080	195 823	196 402	197 250	197 552	197 964	198 861	199 581	199 635	199 488
Canada	79 405	80 304	80 831	81 570	81 570	81 383	82 307	83 312	83 455	83 455
Greenland	91	91	91	91	91	91	91	91	91	91
Mexico	12 223	12 580	12 628	12 628	13 076	13 301	13 303	12 838	12 838	12 838
USA	102 360	102 848	102 851	102 961	102 815	103 188	103 159	103 340	103 250	103 103
Oceania	14 234	14 232	14 238	14 490	14 503	14 506	14 506	14 749	15 542	15 894
Australia	8 271	8 271	8 271	8 523	8 523	8 523	8 523	8 523	9 250	9 602
Fiji	138	138	138	138	138	138	138	138	138	138
Fr Polynesia	47	47	48	48	49	49	49	49	49	49
Micronesia	1	1	1	1	1	1	1	1	1	1
New Caledon	78	78	78	78	78	81	81	81	81	81
New Zealand	5 435	5 435	5 435	5 435	5 443	5 443	5 443	5 680	5 680	5 680
Papua N Guin	258	256	256	256	256	256	256	259	325	325
Samoa	5	5	9	10	13	13	13	16	16	16
Solomon Is	0	0	0	0	0	0	0	0	0	0
Vanuatu	1	1	1	1	1	1	1	1	2	2
S America	156 759	173 570	174 874	176 096	177 708	178 249	178 437	180 654	180 901	179 823
Argentina	11 114	11 176	11 249	11 294	11 316	11 350	11 351	11 364	11 364	10 169
Bolivia	484	484	602	735	735	736	736	736	736	717
Brazil	94 842	106 584	107 549	107 748	109 095	109 276	109 409	109 756	109 917	109 977
Chile	6 492	6 625	6 645	6 634	6 679	6 934	6 807	7 342	7 365	7 419
Colombia	11 501	11 606	11 731	11 842	11 930	11 959	11 954	13 182	13 224	13 224
Ecuador	2 408	4 446	4 516	5 066	5 076	5 098	5 099	5 191	5 192	5 215
Fr Guiana	120	120	120	120	120	120	120	120	120	120
Guyana	2	2	2	2	2	2	2	2	2	3
Paraguay	8 800	8 800	8 800	8 800	8 824	8 824	8 824	8 824	8 824	8 824
Peru	4 139	5 179	5 113	5 230	5 387	5 406	5 503	5 504	5 523	5 523
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

Renewable hydropower (including mixed plants)

Hydroélectricité renouvelable (y compris les centrales mixtes)

Hidroeléctrica renovable (incluidas las plantas mixtas)

CAP (MW)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
World	1 099 343	1 136 275	1 154 761	1 173 754	1 189 994	1 210 044	1 232 453	1 256 785	1 268 046	1 283 041
Africa	27 230	28 159	30 917	32 288	32 987	33 806	34 287	36 033	37 586	39 325
Algeria	228	228	228 e	228 e	228 e	209 o	129 e	129 e	129 e	129 e
Angola	969 e	1 700 u	2 393 u	3 061 e	3 395 e	3 729 e	3 729 e	3 729 e	3 729 e	3 729 e
Benin	1	1	1	1	1 e	1 e	1 e	1 e	1 e	1 e
Burkina Faso	32 o	32 o	32 o	32 e	32 e	32 e	32 e	32 e	34 o	34 e
Burundi	51 e	51 e	48 e	48 e	48 e	48 e	48 e	63 e	63 e	63 e
Cameroon	732 e	732 e	732 e	732 e	813 e	813 e	813 e	814 e	814 e	814 e
Cent Afr Rep	19 e	19 e	19 e	19 e	19 e	19 e	19 e	19 e	19 e	19 e
Comoros	1 e	1 e	1 e	1 e	1 e	1 e	1 e	1 e	1 e	1 e
Congo DR	2 417 o	2 429 e	2 440 e	2 598 e	2 608 e	2 608 e	2 608 e	2 932 e	3 188 e	3 188 e
Congo Rep	194 e	201 u	214 u	214 u	214 e	214 e	214 e	214 e	214 e	214 e
Cote d'Ivoire	604 o	604 o	879 u	879 e	879 e	879 e	879 e	879 o	879 e	879 e
Egypt	2 800 o	2 800 o	2 800 o	2 832 o	2 832 o	2 832 e	2 832 e	2 832 e	2 832 o	2 832 o
Eq Guinea	126 o	126 o	126 e	127 o	127 e	127 e	127 e	127 e	127 e	127 e
Eswatini	62 e	62 e	62 e	62 e	62 e	62 e	62 e	62 e	62 e	62 e
Ethiopia	2 159 e	2 159	3 817	3 817 e	3 817 e	4 071	4 071	4 821 e	4 883 e	5 683 e
Gabon	331 e	331 e	331 e	331 e	331 e	331 e	331 e	331 e	331 e	331 e
Ghana	1 584 o	1 584 o	1 584 o	1 584 e	1 584 e	1 584 e	1 584 e	1 584 e	1 584 e	1 584 e
Guinea	369 o	369 o	369 e	369 e	364 e	589 e	814 e	814 e	814 e	814 e
Kenya	827 e	830 e	841 e	845 e	852 e	854 e	858 e	858 e	860 e	859 e
Lesotho	74	74	74	74	74	74	74	74	74 e	75 e
Liberia	5 e	27 e	93 e	93 e	93 e	93 e	93 e	93 e	93 e	93 e
Madagascar	164 e	164 e	164 e	164 e	164 e	164 e	164 e	192 e	193 e	193 e
Malawi	372 e	373 e	373 e	373 e	373 e	373 e	373 e	393 e	393 e	393 e
Mali	315 e	315 e	315 e	315 e	315 e	315 e	315 e	455 e	455 e	455 e
Mauritius	61 e	61 e	61 e	61 e	61 e	61 e	61 e	61 e	62 e	62 e
Morocco	1 306	1 306	1 306	1 306	1 306 e	1 306 e	1 306 e	1 306 o	1 306 e	1 306 e
Mozambique	2 192 e	2 193 e	2 193 e	2 193 e	2 193 e	2 194 e	2 194 e	2 194 e	2 194 e	2 194 e
Namibia	330	347	347 o	347 o	347	351 u	351 e	351 e	351 e	351 e
Nigeria	2 111 o	2 111 o	2 111 o	2 111 o	2 111 e	2 111 e	2 111 e	2 111 e	2 861 e	2 861 e
Reunion	134 o	133 o	133 o	133 o	133 o	133 o	134 o	134 e	134 o	134 e
Rwanda	94 e	98 e	98 e	98 e	108 e	118 e	118 e	124 e	124 e	153 e
Sao Tome Prn	2 o	2 o	2 o	2 o	2 o	2 o	2 o	2 e	2 e	2 e
Sierra Leone	56 e	56 e	61 e	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	748 e	752 e	752 e	752 e	752 e
Sudan	1 322 o	1 322 o	1 322 o	1 482 o	1 482 o	1 482 o	1 482 e	1 482 e	1 482 e	1 482 e
Tanzania	579 e	587 e	589 e	595 e	596 e	598 e	599 e	599 e	680 e	1 385 e
Togo	67 o	67 o	67 o	67 o	67 e	67 e	67 e	67 e	67 e	67 e
Tunisia	62 o	62 o	62 o	66 o	66 o	66 o	66 o	66 e	66 e	66 e
Uganda	692 o	692 o	703 o	741 o	1 001 o	1 008 o	1 008 o	1 029 o	1 429 o	1 634 o
Zambia	2 268 e	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 o
Zimbabwe	772 e	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
Asia	442 769	454 837	466 152	478 685	489 447	503 713	522 646	538 992	543 587	561 804
Afghanistan	284 e	329 e	349 e	349 e	349 e	349 e	366 u	468 u	468 e	468 e
Bangladesh	230 o	230 o	230 o	230 e	230 o	230 o	230 o	230 o	230 o	230 o
Bhutan	1 614 o	1 614 o	1 614 o	1 614 o	2 334 u	2 334 e	2 334 e	2 334 o	2 334 e	2 452 e
Cambodia	930 o	930 o	980 o	1 330 o	1 330 o	1 330 o	1 330 o	1 332 o	1 332 o	1 337 o
China	296 500	305 380	314 385	322 271	327 750 o	338 670	354 530	367 710	370 600	385 000 o
China HK SAR	1	1	1	1	1	1	1	1	1 e	1 e
Chinese Taipei	2 089 o	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
India	42 319 e	42 837 e	44 735 e	45 317 e	45 494 o	45 977 e	46 781 e	47 224 e	47 336 e	47 508 e
Indonesia	5 322 e	5 666 e	5 703 e	5 772 o	5 976 o	6 121 o	6 602 o	6 689 o	6 570 o	7 225 e
Japan	28 111	28 161	28 118	28 140	28 136	28 136	28 032	28 111	28 129 e	28 194 e
Kazakhstan	2 678	2 696	2 726	2 756 u	2 778 e	2 785	2 807	2 807	2 903 o	2 810 o
Korea DPR	4 467 o	4 701 o	4 761 o	4 790 o	4 790 o	4 865 o	4 865 o	4 890 u	4 910 u	4 910 e
Korea Rep	1 772	1 790	1 794	1 798	1 809	1 807	1 821	1 813	1 805 o	1 803 o
Kyrgyzstan	3 677	3 677	3 689	3 673 o	3 673 e	3 674	2 780 o	2 780 o	3 143 o	3 258 e
Lao PDR	4 393 e	4 869 e	5 109 u	5 387 u	6 229 e	8 018 e	8 961 e	9 651 e	9 776 e	10 189 e
Malaysia	6 039 e	6 116 e	5 895 e	6 169 e	6 191 e	6 189 e	6 218 e	6 227 e	6 227 e	6 227 e
Mongolia	29 e	31 e	31 e	31 o	31 e	29	29	29	29 e	29 e
Myanmar	3 190 e	3 262 e	3 262 e	3 269 e	3 269 e	3 269 e	3 269 e	3 269 e	3 269 e	3 269 e
Nepal	791 e	811 e	916 e	1 038 e	1 159 e	1 281 e	1 971 e	2 197 e	2 675 e	3 293 e
Pakistan	7 221 e	7 254 e	7 406 e	9 906 e	9 925 e	10 045 e	10 045 e	10 636 e	10 645 e	11 529 e
Philippines	2 878 o	2 888 o	2 898 o	2 984 o	3 027 o	3 045 o	3 048 e	3 039 o	3 096 o	3 133 o
Sri Lanka	1 688 e	1 726 e	1 745 e	1 797 e	1 813 e	1 797 e	1 801 e	1 831 e	1 836 e	1 846 e
Tajikistan	4 957 u	4 957 u	4 958 u	4 958 u	5 718 u	5 718 u	5 718 u	5 737 u	5 737 u	5 737 e
Thailand	3 079 e	3 089 e	3 089 e	3 108 e	3 108 e	3 111 e	3 111 e	3 126 e	3 133 e	3 133 e
Timor Leste	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e
Turkmenistan	1	1	1	1	1 e	1	2 e	2	2 e	2 e
Uzbekistan	1 880	1 880	1 858	1 915 o	1 908	2 021 o	2 052 o	2 225 u	2 382 o	2 391 o
Viet Nam	16 628 e	17 849 e	17 809 e	17 989 e	20 326 e	20 817 e	21 847 e	22 535 e	22 915 e	23 707 e

Renewable hydropower (including mixed plants)

Hydroélectricité renouvelable (y compris les centrales mixtes)

Hidroeléctrica renovable (incluidas las plantas mixtas)

CAP (MW)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
C America + Carib	6 964	7 615	7 762	8 040	8 152	8 269	8 322	8 367	8 481	8 468
Belize	55 u	55 u	55 u	55 u	55 u	55 u	55 u	55 u	55 e	55 e
Costa Rica	1 936 o	2 329 o	2 329 o	2 373 o	2 344 o	2 332 o	2 379 o	2 331 o	2 372	2 353 o
Cuba	67 e	70 e	70 e	68 e	68 e	68 e	68 e	69 e	69 e	69 e
Dominica	7 o	7 o	7 o	7 o	7 o	7 o	7 o	7 e	8 o	8 o
Dominican Rep	613 o	613 o	614 o	616	625 o	625 o	625 e	624 e	624	625 e
El Salvador	497 e	495 e	574 e	575 e	576 e	574 e	572 e	572 e	638 e	643 e
Guadeloupe	9 o	9 o	11 o	11 o	11 o	11 o	11 o	11 o	11 o	11 e
Guatemala	1 087 e	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
Haiti	58 e	58 e	58 e	80 e	80 e	80 e	80 e	78 e	78 e	78 e
Honduras	638 o	677 o	682 o	707 o	730 o	838 o	850 o	910 o	910 o	910 e
Jamaica	30	30	30	30 e	30 e	30 e	30 e	30 e	30 e	30 e
Martinique					0	0				
Nicaragua	138	142 o	142 o	142 o	157 o	157 o	158 o	159 o	160 e	160 e
Panama	1 725	1 632 o	1 647 o	1 770 o	1 791 o	1 810 o	1 810 o	1 845 o	1 847 o	1 848
Puerto Rico	98 o	98 o	98 o	98 o	98 o	98 o	98 o	98 o	98 o	98 e
St Vincent Gren	6 e	6	6 e	6 e	6 e	6 u	6 u	6 e	6 e	6 e
Eurasia	77 699	79 128	80 053	81 269	82 942	85 502	86 088	86 350	89 696	87 654
Armenia	1 287 o	1 312 o	1 327	1 336 o	1 340 o	1 350 o	1 345 o	1 345 e	1 358 o	1 351 o
Azerbaijan	1 103	1 105	1 106 u	1 131 o	1 145	1 149 o	1 157	1 165 o	1 302 u	1 407 o
Georgia	2 802 u	3 160 e	3 113 e	3 220 e	3 300 e	3 323 e	3 354 e	3 379 e	3 450 e	3 414 e
Russian Fed	46 639 e	46 870 e	47 234 e	47 290 e	48 654 e	48 696 e	48 739 e	48 890 e	51 624 e	49 096 e
Türkiye	25 868	26 681	27 273 o	28 291	28 503	30 984	31 493	31 571	31 962	32 386 o
Europe	186 049	189 296	191 125	192 272	193 202	194 727	195 540	197 985	198 492	196 356
Albania	1 798	1 913	2 047	2 105	2 162	2 387	2 507	2 493	2 519	2 519 e
Andorra	46 o	46 o	46 o	46 o	46 o	46 e	46 e	46	46 e	46 e
Austria	13 650 o	14 116 o	14 150 o	14 516 o	14 597 o	14 635	14 748 o	14 924 o	14 953 o	15 071 o
Belarus	34	74	95	95 o	95 e	96	96 e	96	97 u	86
Belgium	112 o	109 o	107	108 o	104 o	106 o	111 o	123 o	124 o	128 o
Bosnia Herzg	1 717 o	1 760 o	1 791 o	1 816 o	1 819 o	1 829 o	1 837 o	1 838 o	1 842 o	1 868 u
Bulgaria	2 355 o	2 359 o	2 508 o	2 515 o	2 514 o	2 512 o	2 505 o	2 484 o	2 486 e	2 486 e
Croatia	2 195 o	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
Czechia	1 088 o	1 090 o	1 093 o	1 093 o	1 094 o	1 094 o	1 113 o	1 114 o	1 117 o	1 117 o
Denmark	7 o	9 o	7 o	7 o	7	7 o	7 o	7 o	7 o	7 e
Estonia	6 o	6 o	7 o	7 e	6 o	8 o	6 o	8 o	10 o	10 o
Faroe Islands	39 o	39 o	39 o	40 o	40 o	40 o	40 o	40	40 e	40 e
Finland	3 133 o	3 133 o	3 156 o	3 152 o	3 157 o	3 164 o	3 171 o	3 171	3 169 o	3 191 o
France	23 824 o	23 893 o	23 979 o	23 999 o	24 141 o	24 227 o	24 263 o	24 236 o	24 598 o	24 641 e
Germany	5 589 o	5 629 o	5 627 o	5 329 o	5 378 o	5 454 o	5 490 o	5 570 o	5 606 o	5 844 o
Greece	3 392 o	3 392 o	3 392 o	3 409 o	3 412 o	3 417 o	3 421 o	3 421 o	3 459 o	3 437 o
Hungary	57 o	57 o	57 o	57 o	58 o	58 o	60 o	60	60 o	60 o
Iceland	1 987	1 987	1 995	2 099	2 104	2 114	2 114	2 105	2 147	2 147 e
Ireland	237 o	237 o	237 o	237 o	237 o	237 o	237 o	237	237 e	237 e
Italy	18 238 o	18 316 o	18 486 o	18 558 o	18 601 o	18 755 o	18 809 o	18 933 o	18 942 o	18 969 e
Kosovo*	43	78	80	80	95	110	110	110	122	122 e
Latvia	1 588 o	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 e
Lithuania	117 o	117 o	117 o	117 o	117 o	117 o	117 o	117	117 o	89 o
Luxembourg	34 o	34 o	35 o	34 o	34 e	35 o	35 o	34 o	34 o	34 o
Moldova Rep	64	64	64 o	64 o	64 e	64	64 e	64	65 e	65 e
Montenegro	662 o	668 o	675 o	676 o	676 o	697 o	697	697	697 e	697 e
Netherlands	37 o	37 o	37 o	37 o	37 o	37 o	38 o	38 o	38 o	38 o
North Macedonia	658 o	661 o	688 o	693 o	698 o	706 o	706 o	713 o	713 o	713 o
Norway	31 372 o	31 817 o	31 912 o	32 530 o	32 797 o	33 732 o	34 075 o	34 269 o	34 291 e	34 698 o
Poland	964 o	972 o	967 o	968 o	974 o	977 o	975 o	984 o	987 e	988 o
Portugal	6 168 o	6 960 o	7 226 o	7 236 o	7 262 o	7 241 o	7 255 o	8 189 o	8 187 e	8 347 o
Romania	6 638 o	6 642 o	6 600 o	6 609 o	6 595 o	6 561 o	6 571 o	6 571 o	6 596 e	6 589 e
Serbia	2 408 o	2 416 o	2 424 o	2 429 o	2 460 o	2 468 e	2 471 e	2 493 o	2 511 e	2 513 e
Slovakia	1 606 o	1 608 o	1 607 o	1 612 o	1 611 o	1 613 o	1 615	1 616 o	1 615 o	1 615 e
Slovenia	1 115 o	1 113 o	1 167 o	1 163 o	1 171 o	1 172 o	1 172	1 166 o	1 171 o	1 192 o
Spain	16 722 o	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 o
Sweden	16 230 o	16 367 o	16 502 o	16 431 o	16 462 o	16 406 o	16 407 o	16 399 o	16 406 e	16 506 e
Switzerland	13 346	14 279	14 826	14 980 o	15 012	15 032	15 050 o	16 006 o	16 220 o	16 220 e
UK	2 077	2 133	2 170 e	2 177	2 180 o	2 185 o	2 190 o	2 190 o	2 190 o	2 190 o
Ukraine	4 697	4 658	4 704	4 734	4 816	4 819	4 823 u	4 823 e	4 488 u	1 250 o
European Union (27)	125 364	126 964	127 832	127 973	128 402	128 666	128 979	130 266	130 771	131 448
Middle East	14 385	14 601	14 255	14 401	14 484	14 494	14 492	14 842	15 018	15 120
Iran IR	10 238 e	10 538 e	10 913 e	11 059 e	11 142 e	11 153 e	11 153 e	11 503 e	11 679 u	11 781 u
Iraq	2 274 e	2 274 e	1 557 e	1 557 e	1 557 e	1 557 e	1 557 e	1 557 e	1 557 e	1 557 e
Israel	7 e	7 e	7 e	7 e	7 e	6 o	6 e	6 e	6 e	6 e
Jordan	12 o	6 o	6 o	6 o	6 o	6 o	4 o	4 o	4 e	4 e
Lebanon	282 e	282 e	282 e	282 e	282 e	282 e	282 e	282 e	282 e	282 e
Syrian AR	1 572 o	1 494 o	1 490 o	1 490 o	1 490 e	1 490 e	1 490 e	1 490 e	1 490 e	1 490 e

Renewable hydropower (including mixed plants)

Hydroélectricité renouvelable (y compris les centrales mixtes)

Hidroeléctrica renovable (incluidas las plantas mixtas)

CAP (MW)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
N America	175 040	176 622	177 169	177 997	178 353	178 563	179 920	180 596	180 527	180 380
Canada	79 231	80 130	80 657	81 396 o	81 396 o	81 209 o	82 133 o	83 138 o	83 281	83 281 e
Greenland	91 o	91 o	91 o	91 e	91 o	91 e	91 e	91 e	91 e	91 e
Mexico	12 223 o	12 580 o	12 628 o	12 628 o	13 076 o	13 301 o	13 303 o	12 838 o	12 838 o	12 838 e
USA	83 494 o	83 821 o	83 792 o	83 882 o	83 790 o	83 961 o	84 392 o	84 529 o	84 317 o	84 170 e
Oceania	13 424	13 422	13 428	13 680	13 693	13 696	13 696	13 939	14 732	15 084
Australia	7 461	7 461	7 461	7 713 o	7 713 o	7 713 o	7 713 o	7 713 e	8 440 e	8 792 e
Fiji	138 u	138 u	138 u	138 u	138 e	138 e	138 e	138 e	138 e	138 e
Fr Polynesia	47 o	47 o	48 o	48 o	49 o	49 e	49 e	49 o	49 e	49 e
Micronesia	1 o	1 o	1 o	1 o	1 o	1 o	1 e	1 e	1 e	1 e
New Caledon	78 o	78 o	78 o	78 o	78 e	81 o	81 e	81 e	81 e	81 e
New Zealand	5 435	5 435	5 435	5 435	5 443	5 443	5 443	5 680	5 680 e	5 680 o
Papua N Guin	258 e	256 e	256 e	256 e	256 e	256 e	256 e	259 e	325 e	325 e
Samoa	5 e	5 e	9 o	10 o	13 o	13 e	13 e	16 o	16 e	16 e
Solomon Is	0	0	0	0	0	0	0	0	0	0
Vanuatu	1 e	1 e	1 e	1 e	1 e	1 e	1 e	1 e	2 e	2 e
S America	155 785	172 596	173 900	175 122	176 734	177 275	177 463	179 680	179 927	178 849
Argentina	10 140 o	10 202 o	10 275 o	10 320 o	10 342 o	10 376 o	10 377 o	10 390 o	10 390 o	9 195 e
Bolivia	484	484	602	735 e	735 o	736 e	736 e	736 e	736 o	717 e
Brazil	94 842 o	106 584 o	107 549 o	107 748 o	109 095 o	109 276 o	109 409 o	109 756 o	109 917 o	109 977 o
Chile	6 492 o	6 625 o	6 645 o	6 634 o	6 679 o	6 934 o	6 807 o	7 342 o	7 365 o	7 419 o
Colombia	11 501 e	11 606 e	11 731 o	11 842 o	11 930 e	11 959 e	11 954 o	13 182 o	13 224 o	13 224 e
Ecuador	2 408 o	4 446 o	4 516 e	5 066 o	5 076 o	5 098 o	5 099 o	5 191	5 192	5 215 e
Fr Guiana	120 o	120 o	120 o	120 o	120 o	120 e	120 e	120 e	120 e	120 e
Guyana	2 o	2 e	2 e	2 e	2 o	2 e	2 e	2 e	2 e	3 e
Paraguay	8 800	8 800	8 800	8 800	8 824	8 824	8 824	8 824	8 824	8 824 e
Peru	4 139 o	5 179 o	5 113 o	5 230 o	5 387 o	5 406 o	5 503 o	5 504 o	5 523 o	5 523 e
South Georgia	0	0	0	0	0	0 e	0 e	0 e	0 o	0 e
Suriname	180	180	180 u	180 e	180 e	180 e	180 e	180 e	180 e	180 e
Uruguay	1 538	1 538	1 538	1 538 o	1 538 e	1 538 o	1 538 e	1 538 o	1 538 o	1 538 o
Venezuela	15 138 e	16 829 e	16 829 e	16 906 e	16 826 e	16 826 e	16 914 e	16 914 e	16 914 e	16 914 e

Pure pumped storage Accumulation par pompage Hidroeléctrica de bombeo pura

CAP (MW)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
World	111 902	116 995	119 844	120 366	120 612	122 319	127 083	136 514	141 820	142 333
Africa	1 864	2 863	3 196	3 196	3 196	3 196	3 196	3 196	3 196	3 546
Morocco	464	464	464 o	464	464 e	464 e	464 e	464 o	464 e	814 u
South Africa	1 400 u	2 399 u	2 732 u	2 732 e	2 732 e	2 732 e	2 732 u	2 732 e	2 732 u	2 732 u
Asia	58 338	61 971	64 671	65 271	65 571	66 771	71 671	81 071	86 221	86 174
China	23 030	26 690	29 390 e	29 990	30 290	31 490	36 390	45 790	50 940	50 940 e
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 o	4 786 e	4 786 o	4 786 e	4 786 e	4 786 e	4 786 e	4 786 e
Japan	21 924	21 897	21 897	21 897	21 897	21 897	21 897	21 897	21 897 o	21 850 o
Korea Rep	4 700	4 700	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	0	0	0	0 e	0	0	0	0 e	0 e
Philippines	736 o	736 o	736 o	736 o	736 o	736 o	736 e	736 o	736 o	736 o
Thailand	560 o	560 o	560 o	560 o	560 o	560 o	560 e	560 e	560 e	560 o
C America + Carib				6	6	6	6	6	6	6
Honduras				6 o	6 o	6 o	6 o	6 o	6 o	6 o
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	1 216	1 216	1 216	1 216	1 216 e	1 216 e	1 216 e	1 216 e	1 216 e
Europe	28 380	28 680	28 464	28 360	28 360	28 365	28 689	28 676	28 710	28 920
Belgium	1 307	1 307	1 307	1 307	1 307	1 307	1 307 o	1 307	1 307 o	1 307 o
Bosnia Herzg	420 o	420 o	420 o	420 e	420 o	420 o	420 o	420	420 o	420
Bulgaria	864 o	864 o	864 o	864 o	864 o	864 o	864 o	864	864 e	864 e
Czechia	1 172 o	1 172 o	1 172 o	1 172 o	1 172 o	1 172 o	1 172 o	1 172	1 172 u	1 172 e
France	1 728 o	1 728 o	1 728 o	1 728 o	1 728 o	1 728 o	1 728 o	1 728	1 728 o	2 206 o
Germany	5 666 o	5 578 o	5 493 o	5 355 o	5 355 o	5 354 o	5 354 o	5 353 o	5 345 o	5 280 o
Ireland	292 o	292 o	292 o	292 o	292 o	292 o	292 o	292	292 e	292 e
Italy	3 982 o	3 982 o	3 940 o	3 940 o	3 940 o	3 940 o	3 940 o	3 928 o	3 970 o	3 970 e
Lithuania	760 o	760 o	760 o	760 o	760 o	760 o	760 o	760	760 o	760 o
Luxembourg	1 296 o	1 296 o	1 296 e	1 296 e	1 296 e	1 296 o	1 296 o	1 296	1 296 o	1 296 o
Poland	1 406 o	1 413 o	1 423 o	1 423 o	1 423 o	1 423 o	1 423 o	1 423	1 423 e	1 359 o
Romania	92 o	92 o	92 o	92 o	92 o	92 o	92 o	92	92 e	92 e
Serbia	614 o	614 o	614 o	614 o	614 e	614 e	614 e	614	614 e	614 e
Slovakia	916 o	916 o	916 e	916 e	916 e	916 e	916 e	916	916 e	916 e
Slovenia	180 o	180 o	180 e	180 o	180 e	180 o	180 o	180	180 e	180 e
Spain	3 331 o	3 331 o	3 331 o	3 331 o	3 331 o	3 331 o	3 331 o	3 331 o	3 331 o	3 331 o
Sweden	99 o	99 o								
Switzerland	469	527	527 e	562	562	562 e	562 o	562	562 e	562 e
UK	2 600	2 600	2 600	2 600	2 600 o	2 600 o	2 600 o	2 600	2 600	2 600 o
Ukraine	1 186	1 509	1 509 o	1 509 o	1 509 e	1 515	1 839	1 839 e	1 839 e	1 700 o
European Union (27)	23 091	23 010	22 794	22 655	22 655	22 654	22 654	22 641	22 675	23 024
Middle East	1 280	1 280	1 280	1 280	1 280	1 580	1 580	1 580	1 580	1 580
Iran IR	1 040	1 040	1 040	1 040 o	1 040 e	1 040 e	1 040 o	1 040 e	1 040 e	1 040 e
Iraq	240	240 e	240 e	240 e	240 e	240 e	240 e	240 e	240 e	240 e
Israel						300 u	300 e	300 e	300 e	300 e
N America	19 040	19 201	19 233	19 253	19 199	19 401	18 941	18 985	19 108	19 108
Canada	174	174 o	174 e	174 e	174 o	174 o	174 o	174 o	174 e	174 e
USA	18 866	19 027	19 059	19 079	19 025	19 227 o	18 767 o	18 811 o	18 934 o	18 934 e
Oceania	810	810	810	810	810	810	810	810	810	810
Australia	810	810	810	810	810 o	810 o	810 o	810 e	810 e	810 e
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	974 o	974 e

Marine energy Énergie marine Energía marina

CAP (MW)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
World	513	524	508	527	525	492	491	493	492	494
Asia	260	260	260	260	261	261	261	261	261	260
China	4	4	4	4	4 e	5 u	5 e	5 e	5 e	5 e
Korea DPR	1 e	1 e	1 e	1 e	1 e	1 e	1 e	1 e	1 e	1 e
Korea Rep	255	255	255 o	255 o	256	256	256	256	256 o	255 o
Singapore	0	0	0 e	0 o	0 e	0 e	0 e	0 e	0 e	0 e
Eurasia	1	1	1	1	1	1	1	1	1	4
Russian Fed	1 e	1 e	1 e	1 e	1 e	1 e	1 e	1 e	1 e	4 e
Europe	231	242	227	246	243	229	228	229	229	229
Faroe Islands	0 u					0 o	0 e	0	0 e	0 e
France	218 o	220 o	219 o	218 o	214 o	212 o	211 o	212 o	212 o	212 e
Netherlands	2 u	2 e	2 e	2 e	2 u	2 e	2 e	2	2 e	2 e
Norway	0 u	0 u	0 e	0 e	0 e	0 e	0 e	0	0 e	0 e
Portugal	1 o	1 o	0 o	0 o	0 o					
Spain	0 u	5 o	5 o	5 o	5 o	5 o	5 o	5	5 e	5 e
Sweden	0 u	0 u	0 e	0 e						
UK	9	13	o	20	22	10 o	10 o	10 o	10 o	10 o
European Union (27)	222	228	226	225	221	219	218	219	219	219
N America	20	20	20	20	20	1	1	1	1	1
Canada	20	20	20	20 e	20 e	1 o	1 o	1 o	1 o	1 e
USA	0 u	0 u	0 o							
Oceania	1	1	1		0	0	0	0		
Australia	1	1	1 e		o		e			
New Zealand					0 o	0 o	0 e	0 e		
S America	0	0	0	0	0	0	0	0	0	0
Brazil	0	0	0	0 o	0 o	0 o	0 o	0 o	0 o	0 e

Wind energy

Énergie éolienne

Energía eólica

CAP (MW)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
World	416 579	467 533	515 218	563 590	622 938	733 780	824 380	903 171	1 019 603	1 132 837
Africa	3 320	3 831	4 578	5 471	5 528	6 514	6 909	7 745	8 654	9 233
Algeria	10	10	10	10	10	10	10	10	10	10
Cabo Verde	27	27	27	27	27	27	27	27	27	27
Chad		1	1	1	1	1	1	1	1	1
Djibouti							20	20	80	80
Egypt	755	755	755	1 130	1 132	1 380	1 640	1 643	1 890	2 199
Eritrea	1	1	1	1	1	1	1	1	1	1
Ethiopia	324	324	324	324	324	324	324	404	324	324
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	26	336	336	336	436	436	436	436
Madagascar	0	0	0	0	0	0	0	0	0	0
Mauritania	34	34	34	34	34	34	34	34	137	137
Mauritius	1	11	11	11	11	11	11	11	11	11
Morocco	797	902	1 022	1 225	1 225	1 435	1 471	1 558	1 858	2 128
Namibia	0	0	5	5	5	5	5	5	5	5
Reunion	15	17	17	17	17	17	17	15	15	15
Senegal					55	159	159	159	159	159
Seychelles	6	6	6	6	6	6	6	6	6	6
Somalia	3	3	4	4	4	4	4	4	4	4
South Africa	1 079	1 473	2 094	2 094	2 094	2 516	2 495	3 163	3 442	3 442
Tanzania						2	2	2	2	2
Tunisia	240	240	240	245	245	245	245	245	245	245
Asia	161 811	184 112	204 945	228 978	257 670	331 942	384 803	426 482	508 599	594 445
Afghanistan	0	0	0	0	0	0	0	0	0	0
Bangladesh	3	3	3	3	3	3	3	3	3	3
Bhutan	1	1	1	1	1	1	1	1	1	1
Cambodia	0	0	0	0	0	0	0	0	0	0
China	131 048	148 517	164 374	184 665	209 582	281 993	328 973	365 964	441 895	521 746
China HK SAR			1	1	1	1	1	1	1	1
Chinese Taipei	647	682	692	713	845	937	1 094	1 581	2 677	3 890
India	25 088	28 700	32 848	35 288	37 505	38 559	40 067	41 930	44 736	48 163
Indonesia	1	1	1	144	154	154	154	154	152	152
Japan	2 809	3 205	3 483	3 498	3 952	4 120	4 262	4 483	5 343	5 832
Kazakhstan	72	98	112	121	284	486	684	1 108	1 440	1 411
Korea DPR	1	1	1	1	1	2	2	2	2	2
Korea Rep	853	1 035	1 143	1 303	1 494	1 645	1 709	1 946	2 205	2 301
Maldives	1	1	1	1	1	1	1	1	1	1
Mongolia	51	51	101	156	156	156	156	156	155	156
Myanmar	0	0	0	0	0	0	0	0	0	0
Nepal	0	0	0	0	0	0	0	0	0	0
Pakistan	308	591	789	1 186	1 236	1 236	1 335	1 845	1 845	1 845
Philippines	427	427	427	427	443	443	443	443	443	443
Singapore			0	0	0	0	0	0	0	0
Sri Lanka	131	131	131	128	128	179	252	252	267	267
Thailand	234	507	628	1 103	1 507	1 507	1 545	1 545	1 544	1 544
Uzbekistan			1	1	1	1	1	1	1	501
Viet Nam	136	160	205	237	375	518	4 118	5 065	5 888	6 185

Wind energy

Énergie éolienne

Energía eólica

CAP (MW)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
C America + Carib	1 246	1 485	1 611	1 737	1 956	1 970	1 993	2 111	2 128	2 191
Aruba	30	30	30	30	30	30	30	30	30	30
Bahamas	0	0	0	0	0	0	0	0	0	0
Barbados	0	0	0	0	0	0	0	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
Costa Rica	278	319	378	408	411	394	390	390	408	402
Cuba	16	16	16	16	16	16	16	16	16	16
Curacao	30	30	47	47	47	47	47	47	47	70
Dominica	0	0	0	0	0	0	0	0	0	0
Dominican Rep	86	135	135	183	370	370	370	417	417	433
El Salvador						36	54	54	54	54
Grenada	0	0	0	0	0	0	0	0	0	0
Guadeloupe	27	27	27	43	48	42	52	56	56	57
Guatemala	76	76	76	107	107	107	107	107	107	107
Haiti				0	0	0	0	0	0	0
Honduras	156	179	229	229	239	239	239	239	239	239
Jamaica	42	102	102	102	102	102	102	102	102	102
Martinique	1	1	1	1	14	15	14	14	14	14
Nicaragua	186	186	186	186	186	186	186	186	186	186
Panama	205	270	270	270	270	270	270	336	336	336
Puerto Rico	99	99	99	99	99	99	99	99	99	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
Eurasia	4 617	5 895	6 695	7 291	7 878	9 963	12 746	13 765	14 429	15 627
Armenia	3	3	3	3	3	3	3	3	3	3
Azerbaijan	8	16	16	66	66	66	66	64	67	64
Georgia		20	20	20	21	21	21	21	21	21
Russian Fed	103	106	141	196	197	1 041	2 050	2 280	2 532	2 567
Türkiye	4 503	5 751	6 516	7 005	7 591	8 832	10 607	11 396	11 806	12 973
Europe	143 014	155 727	170 616	181 787	196 110	207 896	221 505	240 332	257 239	268 891
Austria	2 489	2 730	2 887	3 133	3 224	3 226	3 422	3 633	3 896	4 035
Belarus	22	62	84	92	112	112	112	120	122	122
Belgium	2 181	2 334	2 779	3 305	3 864	4 673	4 948	5 303	5 454	5 599
Bosnia Herzg	0	0	0	51	87	87	135	135	135	219
Bulgaria	699	699	698	699	703	703	704	704	704	704
Croatia	418	483	576	586	646	801	987	987	1 160	1 191
Cyprus	158	158	158	158	158	158	158	158	158	158
Czechia	281	282	308	316	339	339	339	339	343	356
Denmark	5 077	5 245	5 489	6 123	6 111	6 259	7 004	7 084	7 277	7 621
Estonia	300	310	312	310	316	317	316	316	337	572
Faroe Islands	20	20	20	16	13	19	23	48	66	68
Finland	1 005	1 565	2 044	2 041	2 284	2 586	3 257	5 677	6 946	8 360
France	10 298	11 567	13 499	14 900	16 427	17 535	18 551	20 835	23 132	24 592
Germany	44 580	49 435	55 580	58 721	60 742	62 201	63 711	66 202	69 486	72 823
Greece	2 091	2 370	2 624	2 877	3 589	4 119	4 649	4 702	5 232	5 357
Hungary	329	329	329	329	323	323	324	324	324	324
Iceland	3	3	2	2	2	2	2	2	4	4
Ireland	2 451	2 802	3 319	3 674	4 126	4 307	4 339	4 536	4 739	4 942
Italy	9 137	9 384	9 737	10 230	10 679	10 871	11 254	11 821	12 307	12 992
Kosovo*	1	1	34	34	34	34	34	68	137	137
Latvia	68	70	77	78	78	78	77	82	128	128
Lithuania	436	509	518	533	534	540	671	946	1 284	1 828
Luxembourg	64	120	120	123	136	153	136	165	207	210
Malta	0	0	0	0	0	0	0	0	0	0
Moldova Rep	1	2	9	33	35	41	67	115	141	123
Montenegro			72	72	118	118	118	118	118	118
Netherlands	3 391	4 257	4 202	4 393	4 484	6 648	7 646	8 700	10 734	11 679
North Macedonia	37	37	37	37	37	37	37	37	74	74
Norway	867	883	1 207	1 710	2 914	4 030	5 049	5 062	5 064	5 152
Poland	4 886	5 747	5 759	5 766	5 838	6 298	6 967	8 150	9 343	10 059
Portugal	4 937	5 124	5 124	5 172	5 223	5 122	5 427	5 538	5 538	5 583
Romania	3 130	3 025	3 030	3 032	3 038	3 013	3 015	3 015	3 027	3 096
Serbia	10	17	25	227	398	398	398	398	510	604
Slovakia	3	3	4	3	4	4	4	4	4	4
Slovenia	3	3	3	3	3	3	3	3	3	3
Spain	22 943	22 990	23 124	23 405	25 590	26 819	27 908	30 114	30 868	31 811
Sweden	5 819	6 435	6 611	7 300	8 681	9 976	12 116	14 279	16 224	17 239
Switzerland	60	75	75	75	75	87	88	88	88	102
UK	14 305	16 126	19 585	21 606	23 887	24 458	25 748	28 761	30 163	30 902
Ukraine	514	526	553	621	1 258	1 402	1 761	1 761	1 761	

Wind energy Énergie éolienne Energía eólica

CAP (MW)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
European Union (27)	127 216	138 020	148 957	157 272	167 219	177 146	188 017	203 704	218 942	231 354
Middle East	286	409	494	623	785	934	1 039	1 582	1 910	1 921
Bahrain	1	1	1	1	1	1	1	3	3	3
Iran IR	153	191	259	282	305	308	310	342	365	376
Israel	6	27	27	27	27	27	27	136	343	343
Jordan	118	184	198	295	384	529	632	632	631	631
Kuwait	2	2	2	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
Saudi Arabia			3	3	3	3	3	403	403	403
Syrian AR	1	1	1	1	1	1	1	1	1	1
United Arab Em	2						0	0	99	99
N America	87 252	97 527	104 261	111 662	123 597	139 191	154 210	164 389	172 328	178 847
Canada	11 214	11 973	12 250	12 816	13 220	13 532	13 722	15 081	16 989	18 376
Greenland				0	0	0	0	0	1	1
Mexico	3 271	4 051	4 180	4 180	6 541	6 995	7 469	7 634	7 318	7 318
USA	72 767	81 502	87 831	94 666	103 836	118 664	133 019	141 674	148 020	153 152
Oceania	5 059	5 425	6 149	7 152	8 625	10 951	11 522	13 035	14 042	16 626
Australia	4 318	4 683	5 407	6 409	7 881	10 207	10 555	11 966	12 908	15 288
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
New Caledon	38	38	38	38	38	38	38	58	58	58
New Zealand	689	690	690	690	690	690	913	994	1 059	1 263
Samoa	1	1	1	1	1	1	1	1	1	1
Tokelau					0	0	0	0	0	0
Tonga	0	0	0	0	1	1	1	1	1	1
Vanuatu	4	4	3	3	3	3	3	3	3	3
S America	9 973	13 121	15 868	18 889	20 788	24 419	29 652	33 731	40 275	45 055
Argentina	188	188	228	751	1 609	2 624	3 292	3 310	3 706	4 320
Bolivia	3	27	27	27	27	27	128	128	135	135
Brazil	7 682	10 322	12 451	14 514	15 457	17 217	21 002	24 196	29 113	32 959
Chile	910	1 039	1 312	1 614	1 705	2 526	3 203	3 926	4 623	4 807
Colombia	18	18	18	18	18	18	18	34	34	34
Ecuador	21	21	21	21	21	21	21	21	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	240	372	372	409	409	539	1 015	1 151
South Georgia	0	0	0	0	0	0	0	0	0	0
Uruguay	857	1 212	1 518	1 518	1 524	1 524	1 524	1 524	1 524	1 524
Venezuela	50	50	50	50	50	50	50	50	50	50

Onshore wind energy

Énergie éolienne terrestre

Energía eólica terrestre

CAP (MW)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
World	404 844	453 155	496 413	540 030	594 674	699 439	770 111	840 541	945 352	1 053 403
Africa	3 320	3 831	4 578	5 471	5 528	6 514	6 909	7 745	8 654	9 233
Algeria	10	10	10 e	10 e	10 e	10 e	10 e	10 e	10 e	10 e
Cabo Verde	27	27	27	27 o	27 o	27 o	27 o	27 o	27 o	27 e
Chad		1 u	1 e	1 e	1 e	1 o	1 e	1 e	1 e	1 e
Djibouti							20 u	20 e	80 e	80 e
Egypt	755 o	755 o	755 o	1 130 o	1 132 e	1 380 e	1 640 e	1 643 e	1 890 e	2 199 e
Eritrea	1 e	1 e	1 e	1 e	1 e	1 e	1 e	1 e	1 e	1 e
Ethiopia	324	324 u	324 e	324 e	324 e	324	324	404 e	324 e	324 e
Gambia	1 o	1 o	1 o	1 e	1 e	1 e	1 e	1 e	1 e	1 e
Ghana	0 o	0 e	0 e	0 e	0 e	0 e	0 e	0 o	0 e	0 e
Kenya	26 e	26 e	26 e	336 e	336 e	336 e	436 e	436 e	436 e	436 e
Madagascar	0 o	0 o	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e
Mauritania	34 o	34 o	34 o	34 e	34 e	34 e	34 e	34 e	137 e	137 e
Mauritius	1	11 o	11 e	11 e	11 e	11 e	11 e	11 e	11 e	11 o
Morocco	797	902 o	1 022 o	1 225 o	1 225 e	1 435 e	1 471 e	1 558 e	1 858 e	2 128 e
Namibia	0 e	0 e	5 e	5 e	5 e	5 e	5 e	5 e	5 e	5 e
Reunion	15 o	17 o	17 e	17 o	17 e	17 e	17 e	15 o	15 e	15 e
Senegal					55 o	159 o	159 e	159 e	159 e	159
Seychelles	6 o	6 o	6 o	6 e	6 e	6 e	6 o	6 o	6 e	6 u
Somalia	3 u	3 u	4 u	4 e	4 e	4	4 e	4 e	4 e	4 e
South Africa	1 079 o	1 473 o	2 094 o	2 094 o	2 094 e	2 516 u	2 495 u	3 163 u	3 442 u	3 442 u
Tanzania						2 u	2 e	2 e	2 e	2 e
Tunisia	240 o	240 o	240 o	245 o	245 o	245 o	245 e	245 e	245 e	245 e
Asia	161 083	182 427	201 939	224 144	251 374	322 530	356 962	393 957	468 116	550 853
Afghanistan	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e
Bangladesh	3 o	3 o	3 o	3 e	3 o	3 o	3 o	3 o	3 o	3 o
Bhutan	1 u	1 e	1 e	1 e	1 e	1 e	1 e	1 e	1 e	1 e
Cambodia	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e
China	130 489	147 037	161 586	180 077	203 652 e	273 003 o	302 583 e	335 504 e	404 605 e	482 646 e
China HK SAR			1	1	1	1	1	1	1 e	1 e
Chinese Taipei	647 o	682 o	684 o	705 o	717 o	809 o	825 o	836 o	914 o	927 o
India	25 088 o	28 700 o	32 848 o	35 288 o	37 505 o	38 559 o	40 067 o	41 930 o	44 736 o	48 163 o
Indonesia	1 o	1 o	1 o	144 o	154 o	154 e	154 o	154 o	152 o	152 e
Japan	2 749	3 140	3 418	3 433	3 886	4 061	4 210	4 293	5 153 o	5 542 o
Kazakhstan	72	98	112	121 o	284 e	486	684	1 108	1 440 o	1 411 o
Korea DPR	1 e	1 e	1 e	1 e	1 e	2 e	2 e	2 e	2 e	2 e
Korea Rep	843	995	1 098	1 230	1 421	1 509 u	1 573	1 810	2 069 o	2 165 o
Maldives	1 e	1 e	1 e	1 e	1 e	1 e	1 e	1 e	1 e	1 e
Mongolia	51 e	51 e	101 e	156 o	156 e	156	156	156 e	155 e	156 e
Myanmar	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e
Nepal	0 u	0 u	0 e	0 o	0 o	0 e	0 e	0 e	0 e	0 e
Pakistan	308 e	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
Philippines	427 o	427 o	427 o	427 o	443 o	443 o	443 o	443 o	443 o	443 o
Singapore			0 u	0 e	0 e	0 e	0 e	0 e	0 e	0 e
Sri Lanka	131 o	131 o	131 o	128 o	128 e	179 o	252 o	252 o	267 o	267 o
Thailand	234	507	628 o	1 103 o	1 507 o	1 507 o	1 545 o	1 545 o	1 544 o	1 544 o
Uzbekistan			1 o	1 o	1 e	1	1 e	1	1 e	501 o
Viet Nam	37 u	61 e	106 e	138 u	275 e	419 e	3 124 e	4 071 e	4 784 e	5 081 e

Onshore wind energy

Énergie éolienne terrestre

Energía eólica terrestre

CAP (MW)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
C America + Carib	1 246	1 485	1 611	1 737	1 956	1 970	1 993	2 111	2 128	2 191
Aruba	30	30	30	30 e	30 o	30 e	30 e	30 e	30 e	30 e
Bahamas	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e
Barbados	0 u	0 u	0 u	0 u	0 u	0 u	0 u	1 u	1 e	1 e
Belize	0 u	0 u	0 u	0 u	0 u	0 u	0 e	0 u	0 e	0 e
BES Islands	11 o	11 o	11 o	11 o	11 o	11 o	11 o	11 o	11 e	11 e
Br Virgin Is	1 o	1 o	1 o	1 o	1 o	1 o	1 o	1 o	1 u	1 e
Cayman Is				1 u	1 e	1 e	1 e	1 e	1 e	1 e
Costa Rica	278 o	319 o	378 o	408 o	411 o	394 o	390 o	390 o	408	402 o
Cuba	16 o	16 o	16 o	16 o	16 e	16 e	16 e	16 e	16 e	16 e
Curacao	30	30	47 u	47 e	47 e	47 e	47 e	47 e	47 e	70 u
Dominica	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e
Dominican Rep	86	135 o	135 o	183 o	370 o	370 o	370	417 o	417	433 o
El Salvador						36 o	54 o	54 e	54 o	54 e
Grenada	0 u	0 u	0 u	0 u	0 e	0 e	0 e	0 e	0 e	0 e
Guadeloupe	27 o	27 o	27 o	43 o	48 o	42 o	52 o	56 o	56 o	57 e
Guatemala	76	76	76	107 o	107 o	107 o	107 o	107 o	107 o	107 e
Haiti				0 u	0 e	0 e	0 e	0 e	0 e	0 e
Honduras	156 e	179 e	229 e	229 e	239 e	239 e	239 e	239 e	239 o	239 e
Jamaica	42 e	102 e	102 e	102 e	102 e	102 e	102 e	102 e	102 e	102 e
Martinique	1 o	1 o	1 e	1 o	14	15	14	14 e	14 e	14 e
Nicaragua	186	186	186	186 o	186 o	186 o	186 e	186 e	186 e	186 e
Panama	205 o	270	270	270 o	270	270 e	270 o	336 o	336 o	336 o
Puerto Rico	99 o	99 o	99 o	99 o	99 o	99 o	99 o	99 o	99 o	128 o
St Kitts Nevis	2	2	2 u	2 e	2 e	2 e	2 e	2 e	2 e	2 e
Trinidad Tobago	0	0	0	0 e	0 e	0 e	0 e	0 e	0 e	0 e
US Virgin Is	0 o	0 o	0 o	0 e	0 e	0 e	0 e	0 e	0	0 e
Eurasia	4 617	5 895	6 695	7 291	7 878	9 963	12 746	13 765	14 429	15 627
Armenia	3	3 o	3 e	3 o	3 e	3 e	3 e	3	3 o	3 o
Azerbaijan	8	16 u	16 u	66 o	66 e	66	66	64 o	67 u	64 o
Georgia		20	20	20	21	21 o	21 o	21 e	21 e	21 e
Russian Fed	103 e	106 e	141 e	196 e	197 e	1 041 e	2 050 e	2 280 e	2 532 e	2 567 e
Türkiye	4 503	5 751	6 516	7 005	7 591	8 832	10 607	11 396	11 806	12 973 o
Europe	132 008	143 063	154 846	163 090	174 171	182 997	195 119	210 268	223 513	233 220
Austria	2 489 o	2 730 o	2 887 o	3 133 o	3 224 o	3 226	3 422 o	3 633 o	3 896 o	4 035 o
Belarus	22	62	84	92	112	112	112	120	122 u	122
Belgium	1 469	1 622 o	1 902	2 119	2 308 o	2 411 o	2 687 o	3 042 o	3 192 o	3 337 u
Bosnia Herzg	0 o	0 o	0 o	51 o	87 o	87 o	135 u	135	135 o	219 u
Bulgaria	699 o	699 o	698 o	699 o	703 o	703 o	704 o	704 o	704 o	704 e
Croatia	418 o	483 o	576 o	586 o	646 o	801 o	987 o	987 o	1 160 o	1 191 o
Cyprus	158 o	158 o	158 o	158 o	158 o	158 o	158 o	158	158 o	158 e
Czechia	281 o	282 o	308 o	316 o	339 o	339 o	339 o	339 o	343 o	356 o
Denmark	3 806 o	3 974 o	4 225 o	4 422	4 410	4 558 o	4 698 o	4 778 o	4 808 o	4 808 e
Estonia	300 o	310 o	312 o	310 o	316 o	317 o	316 o	316 o	337	572 o
Faroe Islands	20 o	20 o	20 e	16 o	13 o	19 o	23 o	48 u	66 u	68 u
Finland	973 e	1 533 e	2 012 o	2 009 o	2 252 o	2 554 o	3 225 o	5 645 o	6 914 o	8 328 o
France	10 287 o	11 556 o	13 489 o	14 887 o	16 413 o	17 521 o	18 537 o	20 334 o	21 645 o	23 105 o
Germany	41 297 o	45 283 o	50 174 o	52 328 o	53 187 o	54 414 o	55 904 o	57 986 o	61 013 o	63 608
Greece	2 091 o	2 370 o	2 624 o	2 877 o	3 589 o	4 119 o	4 649 o	4 702 o	5 232 o	5 357 u
Hungary	329 o	329 o	329 o	329 o	323 o	323 o	324 o	324	324 o	324 o
Iceland	3	3	2	2	2	2	2	2	4	4 e
Ireland	2 426 o	2 776 o	3 294 o	3 649 o	4 101 o	4 282 o	4 314	4 511 o	4 714 o	4 917 o
Italy	9 137 o	9 384 o	9 737 o	10 230 o	10 679 o	10 871 o	11 254 o	11 821 o	12 276 o	12 961 o
Kosovo*	1	1	34	34	34	34	34	68	137 u	137 e
Latvia	68 o	70 o	77 o	78 o	78 o	78 o	77 o	82 o	128 o	128 o
Lithuania	436 o	509 o	518 o	533 o	534 o	540 o	671 o	946 o	1 284 o	1 828 o
Luxembourg	64 o	120 o	120 o	123 o	136 o	153 o	136 o	165 o	207 o	210 o
Malta	0 o	0 o	0 o	0 e	0 e	0 o	0 o	0	0 o	0 e
Moldova Rep	1	2 o	9 o	33	35	41	67 o	115 o	141 o	123 o
Montenegro			72 u	72 o	118 u	118 e	118 u	118	118 e	118 e
Netherlands	3 034	3 300	3 245 o	3 436 o	3 527 o	4 188 o	5 186 o	6 131 o	6 750 o	6 932 o
North Macedonia	37 o	37 o	37 o	37 o	37 o	37 o	37 o	37 o	74 o	74 e
Norway	865 e	881 e	1 205 o	1 708 o	2 912 o	4 028 o	5 047 o	5 060 o	5 062 o	5 062 o
Poland	4 886 o	5 747 o	5 759 o	5 766 o	5 838 o	6 298 o	6 967 o	8 150 o	9 343 o	10 059 o
Portugal	4 935 o	5 124 o	5 124 o	5 172 o	5 223 o	5 097 o	5 402 o	5 513 o	5 513 o	5 558 o
Romania	3 130 o	3 025 o	3 030 o	3 032 o	3 038 o	3 013 o	3 015 o	3 015 o	3 027 o	3 096 o
Serbia	10 e	17 o	25 u	227 o	398 o	398 o	398 o	398	510 o	604 o
Slovakia	3 o	3 o	4 u	3 o	4 o	4 o	4 o	4	4 e	4 e
Slovenia	3 o	3 o	3 o	3 o	3 o	3 o	3	3	3 e	3 o
Spain	22 938 e	22 985 o	23 119 o	23 400 o	25 585 o	26 814 o	27 903	30 109 o	30 863 o	31 806 o
Sweden	5 606 o	6 232 o	6 408 o	7 097 o	8 478 o	9 773 o	11 923 o	14 086 o	16 031 o	17 046
Switzerland	60	75	75 u	75 o	75 e	87	88	88 o	88 e	102 o
UK	9 212	10 833	12 597	13 425	13 999	14 075 o	14 493 o	14 834 o	15 418 o	16 157 u
Ukraine	514	526	553	621 o	1 258 o	1 402	1 761 u	1 761 e	1 761 e	

Onshore wind energy

Énergie éolienne terrestre

Energía eólica terrestre

CAP (MW)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
European Union (27)	121 305	130 651	140 177	146 758	155 171	162 632	172 889	187 570	199 963	210 519
Middle East	286	409	494	623	785	934	1 039	1 582	1 910	1 921
Bahrain	1	1	1	1	1	1	1	3	3	3 e
Iran IR	153	191	259 o	282 o	305	308	310 o	342 u	365 u	376 u
Israel	6 e	27 e	27 e	27 e	27 e	27 e	27 e	136 u	343 u	343 e
Jordan	118 o	184 o	198 o	295 o	384 o	529 o	632 o	632 e	631 e	631 e
Kuwait	2 e	2 e	2 e	12 e	12 e	12 e	12 e	12 e	12 e	12 e
Lebanon	3 e	3 e	3 e	3 e	3 e	3 e	3 e	3 e	3 e	3 e
Oman					50	50 e	50 e	50 e	50 e	50 e
Saudi Arabia			3	3	3	3	3	403	403	403 e
Syrian AR	1 e	1 e	1 e	1 e	1 e	1 e	1 e	1 e	1 e	1 e
United Arab Em	2 e	u	u	u	u	0	0	0	99	99 e
N America	87 252	97 497	104 232	111 633	123 568	139 162	154 169	164 347	172 286	178 676
Canada	11 214	11 973	12 250	12 816	13 220	13 532 o	13 722 o	15 081 o	16 989	18 376
Greenland				0 o	0 o	0 e	0 e	0	1	1 e
Mexico	3 271 o	4 051 o	4 180 o	4 180	6 541	6 995 o	7 469 o	7 634 o	7 318 o	7 318 e
USA	72 767 o	81 473 o	87 801 o	94 637 o	103 806 o	118 634 o	132 978 o	141 633 o	147 979 o	152 981 o
Oceania	5 059	5 425	6 149	7 152	8 625	10 951	11 522	13 035	14 042	16 626
Australia	4 318	4 683	5 407	6 409	7 881	10 207	10 555	11 966	12 908 u	15 288 o
Fiji	10 u	10 u	10 u	10 o	10 o	10 o	10 o	10 e	10 e	10 e
Fr Polynesia	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e
Guam		0 o	0 o	0 e	0 e	0 e	0 e	0 e	0 e	0 e
Marshall Is	0 e	0 e	0 e	0 u	0 e	0 e	0 e	0 e	0 e	0 e
Micronesia				1 u	1 e	1 e	1 e	1 e	1 e	1 e
New Caledon	38 o	38 o	38 o	38 o	38 e	38 e	38 e	58	58 e	58 e
New Zealand	689	690	690	690	690	690	913	994	1 059 o	1 263 u
Samoa	1 o	1 o	1 o	1 o	1 e	1 e	1 e	1 e	1 e	1 e
Tokelau					0 o	0 e	0 e	0 e	0 e	0 e
Tonga	0 u	0 u	0 u	0 u	1 e	1 e	1 e	1 e	1 e	1 e
Vanuatu	4 o	4 o	3 o	3 o	3 o	3 e	3 e	3 e	3 e	3 e
S America	9 973	13 121	15 868	18 889	20 788	24 419	29 652	33 731	40 275	45 055
Argentina	188 o	188	228	751	1 609	2 624 o	3 292 o	3 310	3 706 o	4 320 e
Bolivia	3	27	27	27	27	27	128	128	135	135 o
Brazil	7 682 o	10 322 o	12 451 o	14 514 o	15 457 o	17 217 o	21 002 o	24 196 o	29 113 o	32 959 o
Chile	910	1 039	1 312 o	1 614 o	1 705 o	2 526 o	3 203 o	3 926 o	4 623 o	4 807 o
Colombia	18	18	18	18	18 o	18	18	34 o	34 o	34 o
Ecuador	21 o	21 o	21 o	21 e	21 o	21 o	21 o	21 o	71	71 e
Falklands Malv	3 e	3 e	3 e	3 e	3 e	3 e	3 e	3 e	3 e	3 e
Guyana	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e
Paraguay						0	0	0	0 e	0 e
Peru	240 o	240 o	240 o	372 e	372 e	409 e	409 o	539 e	1 015 o	1 151 o
South Georgia	0	0	0	0	0	0 e	0 e	0 e	0 e	0 e
Uruguay	857 o	1 212 o	1 518 o	1 518 o	1 524 o	1 524 o	1 524 e	1 524 o	1 524 o	1 524 o
Venezuela	50 e	50 e	50 e	50 e	50 e	50 e	50 e	50 e	50 e	50 e

Offshore wind energy

Énergie éolienne maritime

Energía eólica marina

CAP (MW)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
World	11 735	14 378	18 805	23 560	28 264	34 340	54 269	62 630	74 251	79 434
Asia	729	1 685	3 006	4 833	6 296	9 412	27 841	32 525	40 483	43 592
China	559	1 480	2 788 u	4 588 u	5 930	8 990	26 390	30 460	37 290	39 100 o
Chinese Taipei			8 u	8 u	128 o	128 o	269 o	745 o	1 763 o	2 963 o
Japan	60	65	65 u	65 u	66	59	52	190	190 e	290 u
Korea Rep	11	41	46 e	73 u	73 u	136 u	136 e	136 e	136 e	136 e
Viet Nam	99 u	99 o	99 o	99 e	99 u	99 e	994 e	994 e	1 104 o	1 104 o
Europe	11 006	12 664	15 770	18 698	21 938	24 899	26 386	30 064	33 726	35 670
Belgium	712 o	712 o	877 o	1 186 o	1 556 o	2 262 o	2 262 o	2 262	2 262 u	2 262 e
Denmark	1 271 o	1 271 o	1 264 o	1 701 o	1 701 o	1 701 o	2 306 o	2 306 o	2 469 o	2 813 u
Finland	32 u	32 u	32 o	32 o	32 o	32 o	32 o	32 o	32 o	32 o
France	11 o	11 o	11 o	13 o	14 o	14 o	14 o	501 o	1 487 o	1 487 e
Germany	3 283 o	4 152 o	5 406 o	6 393 o	7 555 o	7 787	7 807 o	8 216 o	8 473 o	9 215
Ireland	25 o	25 o	25 u	25 o	25 o	25 o	25 e	25	25 o	25 e
Netherlands	357 o	957 o	957 o	957 o	957 o	2 460 o	2 460 o	2 570 o	3 978 o	4 748 o
Norway	2 u	2 u	2 o	2 u	2 u	2 e	2 e	2 o	2 e	90 u
Portugal	2 o	o	o	o	o	25 o	25 o	25 o	25 e	25 o
Spain	5 u	5 u	5 u	5 o	5 o	5 e	5 o	5	5 o	5 e
Sweden	213 o	203 o	203 o	203 o	203 o	203 o	193 o	193	193 e	193 e
UK	5 093	5 293	6 988	8 181	9 888	10 383 o	11 255 o	13 927 o	14 745 o	14 745 u
European Union (27)	5 911	7 368	8 780	10 515	12 048	14 514	15 128	16 134	18 979	20 835
N America	0	29	29	29	29	29	41	41	41	171
USA	0 u	29 o	29 o	29 o	29 o	29 o	41 o	41 o	41 o	171 o

Solar energy

Énergie solaire

Energía solar

CAP (MW)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
World	227 236	299 167	394 312	490 289	592 654	723 638	866 830	1 060 522	1 413 548	1 865 490
Africa	2 114	3 301	5 023	7 922	9 279	10 644	11 570	12 614	13 516	15 378
Algeria	62	262	355	367	367	367	367	451	462	462
Angola	0	0	0	0	1	1	1	285	310	362
Benin	1	2	2	3	4	5	6	33	35	35
Botswana	2	3	3	4	6	6	6	6	10	10
Burkina Faso	3	3	38	54	58	59	59	90	177	206
Burundi	1	2	2	2	2	2	9	9	10	10
Cabo Verde	6	6	6	11	14	15	17	23	26	31
Cameroon	0	0	12	12	13	14	26	26	63	63
Cent Afr Rep	0	0	0	0	0	0	0	0	40	40
Chad	0	0	0	1	1	1	2	2	2	2
Comoros		1	1	1	1	1	3	3	3	3
Congo DR	1	5	6	8	10	14	18	22	25	25
Congo Rep	0	0	0	0	0	1	1	1	1	1
Cote d'Ivoire	0	0	1	2	4	6	8	9	40	40
Djibouti	0	0	0	0	0	0	0	0	0	0
Egypt	36	59	180	764	1 647	1 643	1 663	1 725	1 856	2 590
Eq Guinea		0	0	0	0	0	0	0	0	0
Eritrea	8	9	23	26	26	26	25	25	25	25
Eswatini	0	0	0	0	0	0	10	10	10	10
Ethiopia	10	14	12	12	12	20	21	21	21	22
Gabon	0	0	0	0	0	0	0	1	1	12
Gambia	1	1	1	1	2	2	2	2	2	25
Ghana	32	37	42	72	83	108	165	169	188	188
Guinea	0	0	0	13	14	15	15	16	17	17
Guinea Bissau	0	1	1	2	2	2	2	2	2	2
Kenya	30	35	45	105	126	146	217	318	369	369
Lesotho	0	0	0	0	1	1	1	1	29	29
Liberia	0	0	1	1	2	2	3	3	4	4
Libya	5	5	5	5	5	5	6	6	8	8
Madagascar	0	1	2	22	23	24	24	53	58	58
Malawi	2	3	3	4	4	6	66	108	109	109
Mali	6	7	10	10	11	62	93	97	97	137
Mauritania	18	35	35	87	88	88	88	89	123	157
Mauritius	19	26	33	76	100	109	112	110	125	139
Mayotte	13	13	15	16	17	19	30	30	31	32
Morocco	200	202	204	734	734	774	854	854	934	934
Mozambique	3	3	3	3	43	45	46	88	103	107
Namibia	8	23	62	91	144	145	145	170	163	163
Niger	6	7	7	14	14	15	15	50	83	83
Nigeria	11	15	20	25	37	53	73	102	143	144
Reunion	187	186	188	190	199	208	225	234	239	239
Rwanda	11	12	17	19	22	24	25	26	28	28
Sao Tome Prn		0	0	0	0	0	0	0	1	1
Senegal	8	52	93	135	160	161	228	231	231	273
Seychelles	1	3	4	5	5	8	17	18	18	18
Sierra Leone	0	1	1	1	5	7	15	20	20	20
Somalia	0	1	2	2	2	11	19	42	46	46
South Africa	1 353	2 176	3 451	4 805	4 908	5 994	6 316	6 326	6 165	6 671
South Sudan	0	1	1	2	2	3	3	3	16	30
Sudan	20	26	36	59	80	117	136	190	190	190
Tanzania	13	12	13	18	16	17	19	20	20	20
Togo	0	0	1	4	7	11	64	66	67	67
Tunisia	28	38	47	64	80	95	95	197	506	773
Uganda	5	8	28	54	68	78	80	85	85	85
Zambia	1	2	2	5	95	96	97	98	134	196
Zimbabwe	2	3	5	9	12	14	33	46	46	70

Solar energy

Énergie solaire

Energía solar

CAP (MW)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Asia	90 373	140 191	211 525	275 775	331 242	412 167	488 873	601 615	841 410	1 156 391
Afghanistan	19	21	23	23	52	52	52	53	53	53
Bangladesh	196	165	217	240	280	343	506	523	746	846
Bhutan	0	0	0	0	0	0	0	0	1	3
Brunei Darism	1	1	1	1	1	1	5	5	5	5
Cambodia	12	18	32	43	140	333	395	481	487	878
China	43 549	77 819	130 832	175 262	204 971	253 864	306 973	393 032	609 921	887 930
China HK SAR			1	1	89	91	95	185	333	333
Chinese Taipei	884	1 245	1 768	2 738	4 150	5 817	7 700	9 724	12 418	14 281
India	5 697	9 982	18 257	27 485	35 250	39 705	49 950	63 390	72 859	97 384
Indonesia	79	88	97	68	158	166	221	306	630	815
Japan	34 150	42 040	49 500	56 162	63 192	71 868	78 413	85 066	89 077	91 610
Kazakhstan	57	57	59	209	542	912	1 038	1 146	1 306	1 196
Korea DPR	23	32	36	50	65	79	102	116	129	143
Korea Rep	3 467	4 338	5 633	7 701	10 847	14 756	17 905	20 525	23 493	26 645
Kyrgyzstan									0	0
Lao PDR	1	1	7	33	33	44	58	58	58	58
Malaysia	222	287	331	481	829	1 483	1 787	2 131	2 146	2 306
Maldives	5	7	11	16	29	39	40	52	55	69
Mongolia	14	24	56	73	98	103	103	103	108	143
Myanmar	21	32	44	48	88	84	110	181	181	216
Nepal	13	14	55	56	55	64	90	111	117	175
Pakistan	265	589	655	680	756	855	1 078	1 244	1 243	1 395
Philippines	182	799	924	937	1 009	1 089	1 413	1 667	1 802	2 971
Singapore	46	97	116	162	272	331	482	628	919	1 157
Sri Lanka	37	71	154	228	350	436	624	800	958	1 450
Tajikistan						0	0	0	0	0
Thailand	1 425	2 452	2 703	2 968	2 988	2 985	3 066	3 186	3 300	3 384
Timor Leste	1	1	1	1	1	0	0	0	0	0
Uzbekistan	1	2	3	4	4	4	4	204	475	2 275
Viet Nam	5	5	8	105	4 994	16 661	16 661	16 698	18 588	18 667
C America + Carib	990	1 198	1 559	1 942	2 533	2 815	3 535	3 940	4 825	5 376
Anguilla	1	2	2	1	2	2	2	2	2	2
Antigua Barb	3	4	4	9	9	13	15	15	16	16
Aruba	6	7	7	15	15	15	15	15	15	15
Bahamas	3	3	3	3	5	5	10	15	15	21
Barbados	3	15	16	17	33	49	64	69	69	69
Belize	1	1	1	1	7	7	7	7	7	7
BES Islands	0	2	5	6	7	7	7	7	8	13
Br Virgin Is	1	1	1	1	1	1	1	2	3	3
Cayman Is		3	9	10	11	13	14	14	14	14
Costa Rica	9	13	19	32	47	56	73	73	73	73
Cuba	18	31	70	124	152	214	246	267	280	292
Curacao	10	11	11	12	12	13	13	13	13	14
Dominica	0	1	1	0	0	0	0	0	0	0
Dominican Rep	24	71	95	191	335	386	584	735	1 077	1 423
El Salvador	11	12	110	167	410	479	543	571	647	648
Grenada	1	2	2	3	3	4	4	4	4	4
Guadeloupe	70	70	70	72	83	88	90	93	95	95
Guatemala	85	85	93	93	93	94	94	97	102	102
Haiti	2	2	3	3	3	3	3	3	4	4
Honduras	396	412	455	515	518	525	529	529	529	554
Jamaica	7	28	56	56	107	107	108	110	113	117
Martinique	65	67	68	71	76	77	82	82	88	92
Montserrat					0	0	1	1	1	1
Nicaragua	1	1	14	14	16	16	16	17	18	36
Panama	43	89	127	199	225	235	498	529	646	743
Puerto Rico	209	244	302	305	337	381	488	639	955	963
St Barth		0	0	0	0	0	0	0	0	1
St Kitts Nevis	1	2	2	2	2	3	3	3	3	5
St Lucia	1	1	1	4	4	4	4	4	4	5
St Martin	3	2	0	0	1	1	1	2	2	2
St Vincent Gren	3	3	3	3	4	4	4	4	5	5
Trinidad Tobago	4	4	4	4	4	4	4	4	4	5
Turks Caicos	0	0	0	0	1	1	3	3	4	4
US Virgin Is	9	9	5	10	10	10	10	10	10	30
Eurasia	618	1 293	3 991	5 945	7 478	8 533	10 018	11 896	14 234	23 349
Armenia		1	2	17	21	51	146	235	402	485
Azerbaijan	5	25	28	35	33	35	48	51	282	293
Georgia		0	0	1	3	5	18	35	64	133
Russian Fed	363	433	538	828	1 425	1 774	1 988	2 148	2 193	2 554
Türkiye	250	834	3 422	5 064	5 996	6 668	7 817	9 426	11 293	19 883

Solar energy Énergie solaire Energía solar

CAP (MW)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Europe	98 473	104 798	110 635	119 562	139 727	159 761	186 715	222 699	279 601	338 376
Albania	1	1	1	1	14	21	23	100	207	307
Andorra	0	0	0	1	2	3	4	6	9	9
Austria	940	1 100	1 272	1 457	1 703	2 037	2 771	3 757	6 331	8 481
Belarus	6	47	80	154	154	160	164	273	273	265
Belgium	3 108	3 291	3 600	3 963	4 523	5 453	5 934	6 781	8 352	9 752
Bosnia Herzg	8	14	16	18	22	35	57	102	212	212
Bulgaria	1 028	1 030	1 031	1 033	1 044	1 100	1 275	1 737	2 908	3 908
Croatia	48	56	60	68	85	109	138	222	463	860
Cyprus	76	84	110	118	151	229	315	424	581	724
Czechia	2 075	2 068	2 062	2 068	2 085	2 124	2 177	2 404	3 251	4 159
Denmark	782	851	906	998	1 080	1 304	1 704	3 070	3 529	3 945
Estonia	7	10	15	32	121	208	395	520	813	1 326
Faroe Islands					0	0	0	0	0	0
Finland	17	37	77	133	210	299	398	649	986	1 203
France	6 820	7 319	8 100	9 032	10 013	11 133	13 446	14 722	17 399	21 528
Germany	38 601	39 908	41 404	44 035	47 487	51 785	57 463	61 188	74 882	89 943
Greece	2 604	2 604	2 552	2 591	2 754	3 174	4 073	5 104	6 689	9 269
Hungary	172	235	344	728	1 400	2 131	2 968	4 235	5 910	7 699
Iceland	3	4	4	5	7	7	7	7	7	7
Ireland	5	12	30	56	102	163	247	345	888	1 340
Italy	18 742	19 116	19 504	19 916	20 625	21 359	22 286	24 560	29 356	36 013
Kosovo*	0	2	7	7	10	10	14	14	20	20
Latvia		1	1	2	3	5	7	113	319	466
Lithuania	67	68	75	89	130	244	422	738	1 324	2 567
Luxembourg	116	122	128	131	160	187	277	317	394	523
Malta	74	92	109	129	151	180	194	209	226	233
Moldova Rep	1	2	2	3	5	4	14	60	201	344
Montenegro						3	3	3	17	30
Netherlands	1 526	2 135	2 911	4 608	7 228	11 110	14 823	17 356	21 275	24 048
North Macedonia	17	17	17	17	0	79	79	144	506	833
Norway	15	27	45	84	137	143	184	341	653	802
Poland	103	178	277	536	1 495	3 795	7 091	11 063	16 428	20 199
Portugal	452	533	619	717	970	1 191	1 817	2 817	4 040	5 808
Romania	1 326	1 372	1 374	1 386	1 398	1 383	1 394	1 809	2 988	4 688
Serbia	16	17	18	21	23	31	52	137	197	241
Slovakia	533	533	528	471	590	535	537	549	593	867
Slovenia	239	232	247	247	278	370	461	626	1 031	1 309
Spain	7 041	7 044	7 053	7 101	11 146	12 475	16 056	26 238	31 920	38 587
Sweden	104	153	244	428	714	1 107	1 606	2 388	3 993	4 963
Switzerland	1 360	1 617	1 860	2 117	2 425	2 875	3 515	4 528	6 094	7 794
UK	9 601	11 914	12 751	13 060	13 345	13 870	14 261	14 981	16 275	17 603
Ukraine	841	955	1 200	2 003	5 936	7 331	8 062	8 062	8 062	5 500
European Union (27)	86 993	90 571	95 026	102 472	118 076	135 635	160 758	194 439	247 379	304 926
Middle East	1 154	1 621	2 250	3 535	6 076	8 107	10 261	14 213	19 852	23 050
Bahrain	5	6	6	6	10	10	21	46	57	66
Iran IR	9	43	184	286	346	430	456	539	595	782
Iraq	37	37	37	37	37	37	37	42	42	42
Israel	796	906	1 006	1 346	2 138	2 652	3 591	4 632	5 516	5 605
Jordan	57	311	418	760	971	1 541	1 811	1 966	1 990	2 077
Kuwait	5	22	23	34	84	84	84	102	102	102
Lebanon	11	24	37	55	76	90	190	875	1 005	1 005
Oman	2	2	8	26	26	129	155	655	672	672
Palestine	12	25	35	40	82	117	178	192	192	197
Qatar	4	5	5	5	5	5	5	805	805	1 680
Saudi Arabia	24	24	34	84	109	409	439	440	2 585	4 340
Syrian AR			0	1	2	12	33	60	60	60
United Arab Em	132	135	353	600	1 935	2 333	3 002	3 596	5 942	6 011
Yemen	60	81	103	253	254	258	258	264	290	410
N America	27 409	39 098	48 261	58 476	71 841	87 978	109 579	129 156	156 000	195 568
Canada	2 877	3 058	3 419	3 719	4 007	4 379	5 261	5 439	5 884	6 105
Greenland			0	0	0	0	1	1	1	1
Mexico	295	606	1 072	2 770	6 247	7 158	8 927	9 356	10 910	11 992
USA	24 237	35 434	43 770	51 987	61 587	76 441	95 391	114 361	139 205	177 470

Solar energy Énergie solaire Energía solar

CAP (MW)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Oceania	5 174	6 062	7 470	11 424	15 825	20 201	24 929	29 603	34 126	39 548
Amer Samoa	2	4	4	5	5	5	5	7	7	7
Australia	5 035	5 880	7 242	11 128	15 453	19 772	24 396	28 887	33 282	38 472
Cook Is	3	3	3	5	6	6	6	6	6	6
Fiji	4	6	8	9	9	9	9	10	11	11
Fr Polynesia	30	32	35	38	41	45	46	52	53	73
Guam	32	35	36	38	40	41	43	105	105	105
Kiribati	2	3	2	3	3	2	2	2	2	2
Marshall Is	1	2	2	2	2	2	2	2	2	3
Micronesia	1	4	4	5	5	5	5	5	5	5
Nauru	0	1	1	1	2	2	3	3	3	3
New Caledon	7	10	27	61	104	125	176	211	215	215
New Zealand	37	53	71	91	115	145	192	260	363	570
Niue	0	0	0	0	1	1	1	1	1	2
Palau	1	2	2	3	3	3	4	4	20	20
Papua N Guin	1	1	1	1	2	2	4	4	4	5
Samoa	8	14	14	16	16	16	16	16	16	16
Solomon Is	1	2	3	3	2	2	2	4	6	6
Tokelau	1	1	1	1	1	1	1	1	1	1
Tonga	4	5	7	7	7	7	7	14	15	16
Tuvalu	4	4	4	4	4	4	4	4	4	5
Vanuatu	0	2	3	5	5	6	6	6	6	6
S America	932	1 605	3 599	5 709	8 652	13 433	21 350	34 785	49 984	68 455
Argentina	14	14	14	196	446	768	1 077	1 113	1 405	1 741
Bolivia	6	6	11	70	71	121	171	172	173	177
Brazil	49	136	1 210	2 465	4 706	8 482	14 511	25 399	37 940	53 113
Chile	576	1 125	1 724	2 298	2 720	3 288	4 712	6 902	8 885	11 054
Colombia	1	2	11	13	23	83	181	480	716	1 392
Ecuador	26	26	26	28	28	28	28	29	31	32
Falklands Malv	0	0	0	0	0	0	0	0	0	0
Fr Guiana	51	51	51	51	54	55	55	55	55	55
Guyana	2	2	3	6	7	7	7	13	17	17
Paraguay	0	0	0	0	0	0	0	1	1	1
Peru	135	146	298	324	335	335	332	332	447	528
Suriname	5	5	5	6	6	6	7	7	8	10
Uruguay	64	89	243	248	254	258	266	280	301	330
Venezuela	3	3	3	3	3	3	3	3	3	4

Solar photovoltaic Solaire photovoltaïque Solar fotovoltaica

CAP (MW)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
World	222 386	294 197	389 241	484 478	586 285	717 232	860 464	1 053 958	1 406 684	1 858 622
Africa	1 789	2 876	4 498	6 937	8 194	9 559	10 485	11 529	12 431	14 293
Algeria	37 e	237 e	330 e	342 e	342 e	342 e	342 e	426 e	437 u	437 e
Angola	0 e	0 e	0 e	0 e	1 e	1 e	1 e	285 e	310 e	362 e
Benin	1 e	2 e	2 e	3 e	4 e	5 e	6 e	33 e	35 e	35 e
Botswana	2 e	3 e	3 e	4 e	6 e	6 e	6 e	6 e	10	10 e
Burkina Faso	3 e	3 e	38 e	54 e	58 e	59 e	59 e	90 e	177 e	206 e
Burundi	1 e	2 e	2 e	2 e	2 e	2 e	9 e	9 e	10 e	10 e
Cabo Verde	6 o	6 o	6 o	11 o	14 o	15 o	17 o	23 o	26 o	31 u
Cameroon	0 e	0 e	12 e	12 e	13 e	14 e	26 e	26 e	63 e	63 e
Cent Afr Rep	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	40 e	40 e
Chad	0 e	0 e	0 e	1 e	1 e	1 e	2 e	2 e	2 e	2 u
Comoros		1 e	1 e	1 e	1 e	1 e	3 e	3 e	3 e	3 e
Congo DR	1 e	5 e	6 e	8 e	10 e	14 e	18 e	22 e	25 e	25 e
Congo Rep	0 e	0 e	0 e	0 e	0 e	1 e	1 e	1 e	1 e	1 e
Cote d Ivoire	0 e	0 e	1 e	2 e	4 e	6 e	8 e	9 e	40 e	40 e
Djibouti	0 e	0 u	0 u	0 u	0 u	0 e	0 e	0 e	0 e	0 e
Egypt	16 o	39 u	160 o	744 o	1 627 o	1 623 o	1 643 o	1 705 e	1 836 e	2 570 e
Eq Guinea		0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e
Eritrea	8 e	9 e	23 e	26 e	26 e	26 e	25 e	25 e	25 e	25 e
Eswatini	0	0 e	0 e	0 e	0 e	0 e	10 e	10 e	10 e	10 e
Ethiopia	10	14	12	12	12	20	21	21 e	21 e	22 u
Gabon	0 e	0 e	0 e	0 e	0 e	0 e	0 e	1 e	1 e	12 e
Gambia	1 e	1 e	1 e	1 e	2 e	2 e	2 e	2 e	2 e	25 e
Ghana	32 e	37 e	42 e	72 e	83 e	108 e	165 e	169 e	188 e	188 e
Guinea	0 e	0 e	0 e	13 e	14 e	15 e	15 e	16 e	17 e	17 e
Guinea Bissau	0 e	1 e	1 e	2 e	2 e	2 e	2 e	2 e	2 e	2 e
Kenya	30 e	35 e	45 e	105 e	126 e	146 e	217 e	318 e	369 e	369 e
Lesotho	0 e	0 e	0 e	0 e	1 e	1 e	1 e	1 e	29 e	29 e
Liberia	0 e	0 e	1 e	1 e	2 e	2 e	3 e	3 e	4 e	4 e
Libya	5 u	5 u	5 u	5 e	5 e	5 e	6 u	6 e	8 e	8 e
Madagascar	0 e	1 e	2 e	22 e	23 e	24 e	24 e	53 e	58 e	58 e
Malawi	2 e	3 e	3 e	4 e	4 e	6 e	66 e	108 e	109 e	109 e
Mali	6 e	7 e	10 e	10 e	11 e	62 e	93 e	97 e	97 e	137 e
Mauritania	18 o	35 o	35 o	87 u	88 u	88 e	88 e	89 e	123 u	157 e
Mauritius	19 e	26 e	33 e	76 e	100 e	109 e	112 e	110 e	125 e	139 e
Mayotte	13	13 o	15 o	16	17	19	30	30	31	32
Morocco	20	22	24 o	194 o	194 o	234	314 e	314 e	394 e	394 e
Mozambique	3 o	3 o	3 o	3 o	43 o	45 o	46 o	88 o	103 o	107 e
Namibia	8 e	23 e	62 e	91 e	144 e	145 e	145 e	170 e	163 e	163 e
Niger	6 e	7 e	7 e	14 e	14 e	15 e	15 e	50 e	83 e	83 e
Nigeria	11 e	15 e	20 e	25 e	37 e	53 e	73 e	102 e	143 e	144 e
Reunion	187 e	186 e	188 e	190 e	199 e	208 e	225 e	234 e	239 e	239 e
Rwanda	11 e	12 e	17 e	19 e	22 e	24 e	25 e	26 e	28 e	28 e
Sao Tome Prn	e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	1 e	1 e
Senegal	8 e	52 e	93 e	135 e	160 e	161 e	228 e	231 e	231 e	273 e
Seychelles	1 o	3 e	4 e	5 e	5 e	8 e	17 e	18 e	18 e	18 e
Sierra Leone	0 e	1 e	1 e	1 e	5 e	7 e	15 e	20 e	20 e	20 e
Somalia	0 e	1 e	2 e	2 e	2 e	11 e	19 e	42 e	46 e	46 e
South Africa	1 253 e	1 976 e	3 151 e	4 405 e	4 408 e	5 494 e	5 816 e	5 826 e	5 665 e	6 171 e
South Sudan	0 e	1 e	1 e	2 e	2 e	3 e	3 e	3 e	16 e	30 e
Sudan	20 u	26 u	36 u	59 u	80 u	117 u	136 u	190 e	190 e	190 e
Tanzania	13 e	12 e	13 e	18 e	16 e	17 e	19 e	20 e	20 e	20 e
Togo	0 e	0 e	1 e	4 e	7 e	11 e	64 e	66 e	67 e	67 e
Tunisia	28 e	38 e	47 e	64 e	80 u	95 e	95 e	197 e	506 e	773 e
Uganda	5 e	8 e	28 e	54 e	68 e	78 e	80 e	85 e	85 e	85 e
Zambia	1 e	2 e	2 e	5 e	95 e	96 e	97 e	98 e	134 e	196 e
Zimbabwe	2 e	3 e	5 e	9 e	12 e	14 e	33 e	46 e	46 e	70 e

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CAP (MW)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Asia	90 028	139 826	211 160	275 195	330 499	411 369	487 955	600 698	840 493	1 155 474
Afghanistan	19 e	21 e	23 e	23 e	52 e	52 e	52 e	53 e	53 e	53 e
Bangladesh	196 e	165 e	217 e	240 e	280 e	343 e	506 e	523 e	746 e	846 e
Bhutan	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	1 e	3 e
Brunei Darssm	1 e	1 e	1 e	1 e	1 e	1 e	5 e	5 e	5 e	5 e
Cambodia	12 e	18 e	32 e	43 e	140 e	333 e	395 e	481 e	487 e	878 e
China	43 538	77 788	130 801	175 016	204 575 e	253 414 o	306 403 e	392 462 e	609 351 e	887 360 e
China HK SAR			1	1	89	91	95	185	333	333 e
Chinese Taipei	884 o	1 245 o	1 768 o	2 738 o	4 150 o	5 817 o	7 700 o	9 724 o	12 418 o	14 281 o
India	5 368 e	9 654 e	17 928 e	27 156 e	34 908 e	39 363 e	49 607 e	63 048 e	72 517 e	97 042 e
Indonesia	79 e	88 e	97 e	68 e	158 e	166 e	221 e	306 e	630 e	815 e
Japan	34 150	42 040	49 500	56 162	63 192	71 868	78 413	85 066	89 077 o	91 610 o
Kazakhstan	57 e	57 e	59 e	209 e	542 e	912 e	1 038 e	1 146 e	1 306 o	1 196 o
Korea DPR	23 e	32 e	36 e	50 e	65 e	79 e	102 e	116 e	129 e	143 e
Korea Rep	3 467	4 338	5 633	7 701	10 847	14 756	17 905	20 525	23 493 o	26 645 o
Kyrgyzstan									0	0 e
Lao PDR	1 e	1 e	7 e	33 e	33 e	44 e	58 e	58 e	58 e	58 e
Malaysia	222 e	287 e	331 e	481 e	829 e	1 483 e	1 787 e	2 131 e	2 146 e	2 306 e
Maldives	5 o	7 o	11 o	16 o	29 o	39 o	40 o	52 o	55 o	69 o
Mongolia	14 e	24 e	56 e	73 e	98 e	103 e	103 e	103 e	108 e	143 e
Myanmar	21 o	32 o	44 o	48 o	88 u	84 e	110 e	181 e	181 e	216 u
Nepal	13 e	14 e	55 e	56 e	55 e	64 e	90 e	111 e	117 e	175 e
Pakistan	265 e	589 e	655 e	680 e	756 e	855 e	1 078 e	1 244 e	1 243 e	1 395 e
Philippines	182 e	799 e	924 e	937 e	1 009 e	1 089 e	1 413 e	1 667 e	1 802 e	2 971 e
Singapore	46 o	97 o	116 o	162 o	272 o	331 o	482 o	628 o	919 o	1 157 e
Sri Lanka	37 e	71 e	154 e	228 e	350 e	436 e	624 e	800 e	958 e	1 450 e
Tajikistan						0	0	0	0	0 e
Thailand	1 420 e	2 447 e	2 698 e	2 963 e	2 983 e	2 980 e	3 061 e	3 181 e	3 295 e	3 379 e
Timor Leste	1 u	1 u	1 u	1 u	1 u	0 u	0 u	0 u	0 u	0 u
Uzbekistan	1	2	3	4	4 e	4 e	4 e	204 e	475 e	2 275 e
Viet Nam	5 e	5 e	8 e	105 e	4 994 e	16 661 e	16 661 e	16 698 e	18 588 e	18 667 e
C America + Carib	990	1 198	1 559	1 942	2 533	2 815	3 535	3 940	4 825	5 376
Anguilla	1 e	2 o	2 e	1 u	2 e	2 e	2 e	2 e	2 e	2 e
Antigua Barb	3	4 e	4 e	9 e	9 e	13 e	15 e	15 e	16 e	16 e
Aruba	6 e	7 e	7 e	15 e	15 e	15 e	15 e	15 e	15 e	15 e
Bahamas	3 e	3 e	3 e	3 e	5 e	5 e	10 e	15 e	15 e	21 e
Barbados	3 u	15 u	16 u	17 u	33 u	49 u	64 u	69	69 e	69 e
Belize	1 e	1 e	1 e	1 e	7 e	7 e	7 e	7 e	7 e	7 e
BES Islands	0	2 o	5 o	6 o	7 o	7 o	7 o	7 o	8 u	13 e
Br Virgin Is	1 u	1 o	1 o	1 o	1 o	1 e	1 e	2 e	3 e	3 e
Cayman Is		3 u	9 u	10 u	11 u	13 o	14	14 e	14 u	14 e
Costa Rica	9 e	13 e	19 e	32 e	47 e	56 e	73 e	73 e	73 e	73 e
Cuba	18 e	31 e	70 e	124 e	152 e	214 e	246 e	267 e	280 e	292 e
Curacao	10 o	11 o	11 o	12 o	12 o	13 o	13 e	13 e	13 e	14 e
Dominica	0	1	1	0 e	0 e	0 e	0 e	0 e	0 e	0 e
Dominican Rep	24 o	71 o	95 o	191	335	386 o	584	735	1 077	1 423 e
El Salvador	11 e	12 e	110 e	167 e	410 e	479 e	543 e	571 e	647 e	648 e
Grenada	1 o	2	2	3 o	3 o	4	4 e	4 e	4 e	4 e
Guadeloupe	70	70	70	72	83	88	90	93	95 e	95 e
Guatemala	85 e	85 e	93 e	93 e	93 e	94 e	94 e	97 e	102 e	102 e
Haiti	2 e	2 e	3 u	3 u	3 e	3 e	3 e	3 e	4 e	4 e
Honduras	396 e	412 o	455 o	515 o	518 o	525 o	529 o	529 o	529 o	554 e
Jamaica	7 e	28 e	56 e	56 e	107 e	107 e	108 e	110 e	113 e	117 e
Martinique	65	67	68	71	76	77 o	82 o	82 o	88 o	92 o
Montserrat					0 u	0 e	1	1 e	1 u	1 e
Nicaragua	1	1	14 o	14 o	16 o	16 o	16 e	17 e	18 e	36 e
Panama	43 o	89 o	127 o	199 o	225 u	235 e	498 o	529 e	646 o	743 e
Puerto Rico	209 o	244 o	302 e	305 e	337 e	381 e	488 e	639 e	955 e	963 e
St Barth		0 o	0 o	0 o	0 e	0	0 e	0 o	0 e	1 o
St Kitts Nevis	1 e	2 e	2 e	2 e	2 e	3 e	3 e	3 e	3 e	5 e
St Lucia	1	1 u	1 e	4 u	4 u	4 u	4 e	4 e	4 u	5 o
St Martin	3	2 o	0 o	0 e	1 o	1	1	2 o	2 o	2 e
St Vincent Gren	3 u	3 u	3 u	3	4	4	4	4	5	5 e
Trinidad Tobago	4 e	4 e	4 e	4 e	4 e	4 e	4 e	4 e	4 e	5 u
Turks Caicos	0 o	0 e	0 u	0 u	1 u	1 e	3 u	3 u	4 u	4 o
US Virgin Is	9 e	9 e	5 e	10	10	10	10	10 e	10	30 o
Eurasia	617	1 292	3 990	5 944	7 477	8 532	10 017	11 895	14 233	23 348
Armenia		1	2	17 o	21 e	51 e	146 e	235 e	402 o	485 o
Azerbaijan	5	25	28 u	35 o	33	35	48	51 o	282 o	293 e
Georgia		0 u	0 u	1 u	3 u	5 e	18 e	35 o	64 e	133 e
Russian Fed	363 e	433 e	538 e	828 e	1 425 e	1 774 e	1 988 e	2 148 e	2 193 e	2 554 e
Türkiye	249	833	3 421 o	5 063	5 995	6 667	7 816	9 425	11 292 o	19 882 o

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CAP (MW)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Europe	96 162	102 487	108 324	117 251	137 416	157 450	184 404	220 390	277 292	336 070
Albania	1 e	1	1	1 e	14	21	23	100	207	307
Andorra	0 o	0 o	0 o	1 o	2 o	3 o	4 o	6 o	9 o	9 e
Austria	940 o	1 100 o	1 272 o	1 457 o	1 703 o	2 037 o	2 771 o	3 757 o	6 331 o	8 481 e
Belarus	6	47	80	154	154	160	164	273	273 u	265
Belgium	3 108 o	3 291 o	3 600 o	3 963 o	4 523 o	5 453 o	5 934 o	6 781 o	8 352 o	9 752 u
Bosnia Herzg	8 o	14 o	16 o	18 o	22 o	35 o	57 o	102 o	212 o	212 e
Bulgaria	1 028 o	1 030 o	1 031 o	1 033 o	1 044 o	1 100 o	1 275 o	1 737 o	2 908 o	3 908 u
Croatia	48 o	56 o	60 o	68 o	85 o	109 o	138 o	222 o	463 o	860 u
Cyprus	76 o	84 o	110 o	118 o	151 o	229 o	315 o	424 o	581 o	724 u
Czechia	2 075 o	2 068 o	2 062 o	2 068 o	2 085 o	2 124 o	2 177 o	2 404 o	3 251 o	4 159 u
Denmark	782 o	851 o	906 o	998 o	1 080 o	1 304 o	1 704 o	3 070 o	3 529	3 945
Estonia	7 u	10 o	15 o	32 o	121 o	208 o	395 o	520 o	813 o	1 326 u
Faroe Islands					0	0 o	0 o	0	0 e	0 e
Finland	17 o	37 o	77 o	133 o	210 o	299 o	398 o	649 o	986 o	1 203 e
France	6 820 o	7 319 o	8 100 o	9 032 o	10 013 o	11 133 o	13 446 o	14 722 o	17 399 e	21 528 e
Germany	38 599 o	39 906 o	41 402 o	44 033 o	47 485 o	51 783 o	57 461 o	61 188 o	74 882 o	89 943
Greece	2 604 o	2 604 o	2 552 o	2 591 o	2 754 o	3 174 o	4 073 o	5 104 o	6 689 o	9 269 u
Hungary	172 o	235 o	344 o	728 o	1 400 o	2 131 o	2 968 o	4 235 o	5 910 o	7 699 o
Iceland	3 e	4 e	4 e	5 e	7 e	7 e	7 e	7	7 e	7 e
Ireland	5 o	12 o	30 o	56 o	102 o	163 o	247 o	345 o	888 o	1 340
Italy	18 737 o	19 111 o	19 499 o	19 912 o	20 620 o	21 354 o	22 281 o	24 555 o	29 351 o	36 008 o
Kosovo*	0	2	7	7	10	10	14	14	20	20 e
Latvia		1 o	1 o	2 o	3 o	5 o	7 o	113 o	319 o	466 o
Lithuania	67 o	68 o	75 o	89 o	130 o	244 o	422 o	738 o	1 324 e	2 567 e
Luxembourg	116 o	122 o	128 o	131 o	160 o	187 o	277 o	317 o	394 o	523 o
Malta	74 o	92 o	109 o	129 o	151 o	180 o	194 o	209 o	226 o	233 o
Moldova Rep	1	2	2	3	5	4	14	60	201 e	344 e
Montenegro	o	o	o	o	o	3 o	3 o	3 o	17 o	30 e
Netherlands	1 526	2 135	2 911 o	4 608 o	7 228 o	11 110 o	14 823 o	17 356 o	21 275 o	24 048 o
North Macedonia	17 o	17 o	17 o	17 o	0	79 o	79 o	144 o	506 o	833 u
Norway	15 u	27 u	45 u	84 o	137 o	143 o	184 o	341 o	653 e	802 e
Poland	103 o	178 o	277 o	536 o	1 495 o	3 795 o	7 091 o	11 063 o	16 428 o	20 199 u
Portugal	452 o	533 o	619 o	717 o	970 o	1 191 o	1 817 o	2 817 o	4 040 e	5 808 o
Romania	1 326 o	1 372 o	1 374 o	1 386 o	1 398 o	1 383 o	1 394 o	1 809 o	2 988 o	4 688 u
Serbia	16 e	17 e	18 e	21 e	23 e	31 o	52 o	137 o	197 o	241 e
Slovakia	533 o	533 o	528 o	471 o	590 o	535 o	537	549 o	593 o	867 u
Slovenia	239 o	232 o	247 o	247 o	278 o	370 o	461	626 o	1 031 o	1 309 u
Spain	4 737 o	4 740 o	4 749 o	4 797 o	8 842 o	10 171 o	13 752 o	23 934 o	29 616 o	36 285 e
Sweden	104 o	153 o	244 o	428 o	714 o	1 107 o	1 606 o	2 388 o	3 993 e	4 963 e
Switzerland	1 360 o	1 617 o	1 860 o	2 117 o	2 425 o	2 875 o	3 515 o	4 528 o	6 094 u	7 794 u
UK	9 601	11 914	12 751 o	13 060	13 345	13 870 o	14 261 o	14 981 o	16 275 o	17 603 o
Ukraine	841 o	955 o	1 200 o	2 003 o	5 936 o	7 331	8 062 u	8 062 e	8 062	5 500 e
European Union (27)	84 682	88 260	92 716	100 161	115 765	133 324	158 447	192 130	245 071	302 619
Middle East	1 046	1 514	2 142	3 377	5 627	7 663	9 817	13 569	18 909	22 106
Bahrain	5	6	6	6	10	10	21	46	57	66 e
Iran IR	9	43	184 o	286 e	346 e	430 e	456 e	539 e	595 e	782 e
Iraq	37 e	37 e	37 e	37 e	37 e	37 e	37 e	42 e	42 e	42 e
Israel	790	900	1 000	1 340	1 890	2 410	3 349	4 390	5 274	5 363
Jordan	57 o	311 e	418 o	760 o	971 o	1 541 o	1 811 u	1 966 e	1 990 e	2 077 e
Kuwait	3 o	21 e	21 e	32 e	33 e	33 e	33 e	50 e	50 e	50
Lebanon	11 e	24 e	37 e	55 o	76 o	90 e	190 o	875 e	1 005 e	1 005 e
Oman	2 e	2 e	8 e	26 e	26 e	129 e	155 e	655 e	672 e	672 e
Palestine	12	25	35	40	82 o	117 e	178 e	192 e	192 e	197 e
Qatar	4 e	5 u	5 e	5 e	5 e	5 e	5 e	805 u	805	1 680
Saudi Arabia	24 u	24 e	34 u	34 e	59 u	359	389 u	390 e	2 535	4 290
Syrian AR			0 u	1 u	2 u	12	33	60 o	60 e	60 e
United Arab Em	31 e	35 e	253 u	500 o	1 835 o	2 232 u	2 902 e	3 296 u	5 342 e	5 411 e
Yemen	60 e	81 e	103 e	253 e	254 e	258 e	258 e	264 e	290 e	410 e
N America	25 651	37 340	46 503	56 702	70 066	86 213	108 082	127 659	154 503	194 071
Canada	2 877 o	3 058 o	3 419 o	3 719 o	4 007 o	4 379 o	5 261 o	5 439 o	5 884 o	6 105
Greenland			0 o	0 o	0 o	0	1	1 e	1 e	1 e
Mexico	295 o	606 o	1 072 o	2 754 e	6 230 e	7 141 e	8 910 e	9 339 o	10 893 e	11 975 e
USA	22 479 o	33 676 o	42 012 o	50 229 o	59 829 o	74 693 o	93 911 o	112 881 o	137 725 o	175 990

Solar photovoltaic Solaire photovoltaïque Solar fotovoltaica

CAP (MW)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Oceania	5 171	6 059	7 467	11 421	15 822	20 198	24 926	29 600	34 123	39 545
Amer Samoa	2 o	4 e	4 e	5 e	5 u	5 e	5 o	7 o	7 e	7 e
Australia	5 032	5 877	7 239	11 125	15 450	19 769	24 393	28 884	33 279 o	38 469 o
Cook Is	3 e	3 e	3 e	5 u	6 u	6 e	6 e	6 e	6 e	6 e
Fiji	4 u	6 u	8 u	9 u	9 u	9 u	9 u	10 u	11 u	11 e
Fr Polynesia	30 o	32 o	35 o	38 o	41 o	45 o	46 e	52 e	53 e	73 e
Guam	32 o	35 o	36 e	38 e	40 e	41 e	43 e	105 e	105 e	105 e
Kiribati	2 e	3 e	2 e	3 e	3 e	2 e	2 e	2 e	2 e	2 e
Marshall Is	1 e	2 e	2 e	2 e	2 e	2 e	2 e	2 e	2 e	3 e
Micronesia	1 e	4 e	4 e	5 e	5 e	5 e	5 e	5 e	5 e	5 e
Nauru	0 e	1 e	1 e	1 e	2 e	2 e	3 e	3 e	3 e	3 e
New Caledon	7 o	10 o	27 o	61 o	104 o	125 o	176 o	211 o	215 e	215 e
New Zealand	37	53	71	91	115	145	192	260	363 o	570 o
Niue	0 e	0 e	0 e	0 e	1 u	1 e	1 e	1 e	1 e	2 o
Palau	1 u	2 u	2 e	3 e	3 u	3 u	4 e	4 e	20 e	20 e
Papua N Guin	1 u	1 e	1 e	1 e	2 e	2 e	4 e	4 e	4 e	5 e
Samoa	8 e	14 e	14 e	16 e	16 e	16 e	16 e	16 e	16 e	16 e
Solomon Is	1 e	2 e	3 e	3 e	2 e	2 e	2 e	4 e	6 e	6
Tokelau	1 o	1 o	1 o	1 o	1 o	1 e	1 e	1 e	1 e	1 e
Tonga	4 o	5 o	7 o	7 u	7 e	7 e	7 e	14 e	15 e	16 o
Tuvalu	4 o	4 e	4 o	4 e	4 e	4 e	4 e	4 e	4 e	5 o
Vanuatu	0 e	2 o	3 e	5 o	5 o	6 o	6 o	6 o	6 e	6 e
S America	932	1 605	3 599	5 709	8 652	13 433	21 242	34 677	49 876	68 341
Argentina	14 e	14 e	14 e	196 e	446 e	768 e	1 077 e	1 113 e	1 405 e	1 741 e
Bolivia	6 e	6 e	11 e	70 e	71 e	121 e	171 e	172 e	173 e	177 e
Brazil	49 e	136 e	1 210 e	2 465 e	4 706 e	8 482 e	14 511 e	25 399 e	37 940 e	53 113 e
Chile	576 e	1 125 e	1 724 e	2 298 e	2 720 e	3 288 e	4 604 e	6 793 e	8 777 e	10 940 e
Colombia	1	2	11	13	23 o	83 o	181 o	480 o	716 o	1 392 e
Ecuador	26	26	26	28 o	28 o	28 o	28 o	29	31 o	32 e
Falklands Malv	0 o	0 o	0 o	0 o	0 e	0 e	0 e	0 e	0 e	0 e
Fr Guiana	51 o	51 o	51 o	51 o	54 o	55 e	55 e	55 e	55 e	55 e
Guyana	2 e	2 e	3 e	6 e	7 e	7 e	7 e	13 e	17 e	17 e
Paraguay	0 o	0 o	0 o	0 o	0 o	0	0	1	1 e	1 e
Peru	135 e	146 e	298 e	324 o	335 o	335 e	332 o	332 e	447 e	528 e
Suriname	5 e	5 e	5 e	6 u	6 u	6 u	7 u	7 u	8 u	10 u
Uruguay	64 o	89 o	243 o	248 o	254 o	258 o	266 o	280 o	301 o	330 o
Venezuela	3 e	3 e	3 e	3 e	3 e	3 e	3 e	3 e	3 e	4 e

Concentrated solar power

Solaire thermique à concentration

Energía solar termoeléctrica

CAP (MW)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
World	4 850	4 970	5 070	5 811	6 368	6 406	6 366	6 564	6 864	6 868
Africa	325	425	525	985	1 085	1 085	1 085	1 085	1 085	1 085
Algeria	25 o	25 o	25 e	25 e	25 e	25 e	25 e	25 e	25 e	25 e
Egypt	20	20	20 o	20 e	20 e	20 e	20 e	20 e	20 e	20 e
Morocco	180	180	180 o	540	540	540	540 e	540 e	540 e	540 e
South Africa	100 o	200 o	300 o	400 o	500 u	500 o	500 e	500 e	500 u	500 u
Asia	345	365	365	580	744	798	918	918	918	918
China	11	31 u	31 u	246 u	396 u	450	570	570	570	570 e
India	329 u	329 u	329 u	329 u	343 u	343 u	343 u	343 e	343 u	343 e
Korea Rep	0 e	0 e	0 e							
Thailand	5	5	5	5 e	5 e	5 e	5 e	5 e	5 e	5 e
Eurasia	1	1	1	1	1	1	1	1	1	1
Türkiye	1 o	1 o	1 o	1 o	1 e	1 e	1 e	1	1 e	1 e
Europe	2 311	2 311	2 311	2 311	2 311	2 311	2 311	2 309	2 309	2 307
Germany	2 o	2 o	2 e	2 o	2 o	2 e	2 o	o	o	
Italy	5 o	5 o	5 o	5 o	5 o	5 o	5 o	5 o	5 o	5 e
Romania			0 o	0 o	0 o	0 o	0 o	0 o	0 e	0 e
Spain	2 304 o	2 304 o	2 304 o	2 304 o	2 304 o	2 304 o	2 304 o	2 304 o	2 304 o	2 302 o
European Union (27)	2 311	2 311	2 311	2 311	2 311	2 311	2 311	2 309	2 309	2 307
Middle East	108	108	108	158	450	444	444	644	944	944
Israel	6 e	6 e	6 e	6 e	248 u	242 o	242 e	242 e	242 e	242 e
Kuwait	2 o	2 o	2 o	2 o	52 o	52 o	52 o	52 o	52 e	52 e
Saudi Arabia				50 u	50 e	50 e	50 e	50 e	50 e	50 e
United Arab Em	100 u	100 u	100 u	100 e	100 e	100 e	100 e	300	600	600 e
N America	1 758	1 758	1 758	1 774	1 775	1 765	1 497	1 497	1 497	1 497
Mexico				16	17	17	17	17 e	17 e	17 e
USA	1 758 o	1 758 o	1 758 o	1 758 o	1 758 o	1 748 o	1 480 o	1 480 o	1 480 o	1 480 e
Oceania	3	3	3	3	3	3	3	3	3	3
Australia	3	3	3	3	3	3	3 e	3 e	3 e	3 e
S America							108	108	108	114
Chile							108	108 o	108 o	114 o

Bioenergy Bioénergíe Bioenergía

CAP (MW)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
World	95 599	104 042	109 872	116 968	122 903	130 863	137 337	143 155	146 145	150 763
Africa	1 484	1 547	1 663	1 817	1 831	1 845	1 943	1 942	1 925	2 015
Angola	51	51	51	51	51	51	51	51	51	51
Burkina Faso	1	1	1	1	1	1	1	1	1	1
Burundi	4	4	4	4	4	4	4	4	4	4
Chad	2	2	2	2	2	2	2	2	2	2
Congo DR	0	0	2	3	3	3	3	3	3	3
Congo Rep	12	12	12	12	12	12	12	12	12	12
Egypt	67	67	67	67	79	79	123	123	131	131
Eswatini	106	106	106	106	106	106	106	106	106	106
Ethiopia	119	145	205	290	290	290	335	335	310	310
Gabon	1	1	1	1	1	1	1	1	1	1
Ghana	8	8	8	8	8	8	8	8	8	8
Kenya	58	84	85	88	88	99	99	99	99	187
Liberia	0	0	0	0	0	0	0	0	0	0
Madagascar	0	0	0	0	0	0	0	0	0	0
Malawi	19	19	19	19	19	19	19	19	19	19
Mali	6	6	41	41	41	41	41	41	41	43
Mauritius	91	91	91	91	91	91	91	91	91	91
Morocco	5	7	7	7	7	7	7	7	7	7
Mozambique	73	73	73	73	75	75	75	75	75	75
Namibia	0	0	0	0	0	0	0	0	0	0
Nigeria	8	9	9	9	9	13	21	21	21	21
Reunion	45	46	46	87	87	87	87	86	86	86
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	251	256	260	265	265	265	265	265	265	265
Sudan	199	199	199	199	199	199	199	199	199	199
Tanzania	68	68	70	70	70	70	70	70	70	70
Uganda	65	65	76	96	96	96	96	96	96	96
Zambia	43	43	43	43	43	43	43	43	43	43
Zimbabwe	100	100	100	100	100	100	100	100	100	100
Asia	23 584	29 891	33 244	37 095	42 008	48 735	54 869	58 904	62 094	64 434
Bangladesh	45	45	45	45	45	45	45	45	45	45
Cambodia	58	55	75	76	76	68	66	75	73	73
China	7 977	9 269	11 234	13 235	16 537	21 855	27 345	29 390	31 255	32 564
China HK SAR			45	45	52	52	52	58	58	58
Chinese Taipei	395	395	395	397	395	402	401	408	416	418
India	5 478	8 895	9 417	10 137	10 226	10 533	10 592	10 669	10 752	11 237
Indonesia	1 734	1 775	1 849	1 875	1 884	1 893	2 270	3 087	3 375	3 415
Japan	1 319	1 631	2 026	2 450	2 924	3 324	3 976	4 825	5 805	6 220
Kazakhstan	0	0	1	1	2	8	8	8	14	1
Korea Rep	729	1 745	2 348	2 387	3 215	3 628	2 731	2 731	2 746	2 779
Lao PDR	40	40	40	123	123	123	123	123	123	123
Malaysia	1 555	1 526	800	810	883	891	904	937	937	937
Maldives					0	0	0	0	0	0
Myanmar	48	49	52	57	59	59	59	59	59	59
Nepal	7	7	7	7	7	6	7	7	7	7
Pakistan	333	374	374	432	432	432	432	432	432	432
Philippines	295	312	339	404	456	576	582	696	678	800
Singapore	168	169	169	169	165	163	175	233	244	217
Sri Lanka	20	24	26	27	40	45	45	45	49	49
Thailand	3 165	3 322	3 728	4 037	4 097	4 241	4 681	4 683	4 617	4 543
Timor Leste	0	0	0	0	0	0	0	0	0	0
Viet Nam	220	256	274	382	389	390	373	393	408	456
C America + Carib	2 048	2 274	2 437	2 599	2 527	2 653	2 493	2 459	2 494	2 496
Aruba	2	2	2							1
Bahamas	1	1	1	1	1	1	1	1	1	2
Belize	28	28	36	36	36	36	36	36	36	36
Costa Rica	49	49	49	62	80	80	81	81	81	81
Cuba	440	405	442	464	370	476	482	440	440	440
Dominican Rep	20	20	81	81	81	81	81	83	83	83
El Salvador	202	259	270	305	300	300	301	303	304	304
Guadeloupe	31	31	32	33	33	50	50	50	51	51
Guatemala	878	992	1 028	1 081	1 036	1 036	870	870	870	870
Honduras	169	213	213	213	225	225	225	225	225	225
Jamaica	32	32	32	32	32	32	32	32	32	32
Martinique	3	3	3	44	44	44	44	44	46	46
Nicaragua	134	177	177	177	218	218	218	218	218	218
Panama	60	60	68	68	68	68	68	71	103	103
Puerto Rico		2	2	2	2	5	5	5	5	5
St Lucia		0	0	0	0	0	0	0	0	0

Bioenergy Bioénergje Bioenergía

CAP (MW)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Eurasia	348	436	553	671	867	1 182	1 756	2 036	2 179	2 175
Azerbaijan	38	38	43	45	45	45	45	45	38	38
Georgia								0	0	0
Russian Fed	39	39	39	39	39	40	129	131	131	131
Türkiye	271	359	472	587	784	1 097	1 583	1 861	2 010	2 006
Europe	34 711	35 713	37 149	40 018	41 310	41 805	41 428	42 255	41 281	43 114
Albania			1	1	1	1	1	1	1	1
Andorra		5	5	5	5	5	5	5	5	5
Austria	1 396	1 393	1 290	1 271	1 249	1 251	1 171	1 195	1 228	1 276
Belarus	35	40	41	48	53	123	120	139	141	141
Belgium	943	923	912	887	906	922	817	870	841	796
Bosnia Herzg		1	1	1	2	2	10	10	10	10
Bulgaria	54	57	52	69	57	48	47	79	79	79
Croatia	53	63	87	115	127	135	154	161	151	153
Cyprus	10	10	10	13	13	13	13	14	14	14
Czechia	771	773	802	781	831	846	853	861	821	821
Denmark	1 243	1 305	1 791	1 774	1 982	2 086	2 152	2 007	1 966	1 966
Estonia	281	281	281	259	273	296	296	296	296	296
Faroe Islands						0	2	2	2	2
Finland	1 987	2 009	2 230	2 234	2 214	2 675	2 640	3 059	2 932	3 149
France	1 531	1 661	1 712	1 925	2 008	1 932	2 046	2 059	2 090	3 351
Germany	8 429	8 660	8 982	9 662	9 994	10 320	9 792	9 830	9 860	10 001
Greece	51	58	64	82	88	97	109	128	138	168
Ireland	55	54	86	84	87	87	88	88	87	87
Italy	3 367	3 439	3 450	3 491	3 454	3 439	3 420	3 392	3 399	3 368
Latvia	126	143	154	158	158	156	152	144	130	130
Lithuania	71	72	79	104	105	116	116	118	169	134
Luxembourg	24	25	36	36	56	56	56	56	92	94
Malta	3	5	5	5	5	5	6	4	4	4
Moldova Rep	3	3	6	6	6	7	7	15	15	7
Netherlands	792	772	781	823	814	858	858	871	874	874
North Macedonia	4	5	7	8	9	10	11	13	13	13
Norway	140	87	87	87	81	77	77	77	83	83
Poland	961	974	968	1 004	1 010	1 045	1 100	1 217	1 176	1 176
Portugal	577	587	582	648	702	715	717	706	709	709
Romania	118	123	140	141	139	165	140	185	155	156
Serbia	6	11	15	19	28	31	36	39	55	55
Slovakia	242	253	246	243	226	225	250	264	205	205
Slovenia	63	60	62	60	60	67	67	67	67	57
Spain	1 035	1 037	1 045	1 057	1 112	1 264	1 278	1 279	1 279	1 286
Sweden	4 716	4 850	4 822	5 021	5 299	4 462	4 376	4 507	3 655	3 655
Switzerland	240	241	242	242	241	242	229	229	229	229
UK	4 808	5 251	5 514	7 043	7 230	7 305	7 391	7 463	7 488	7 542
Ukraine	53	60	73	98	180	212	275	275	301	400
European Union (27)	29 337	29 907	31 029	32 410	33 427	33 744	33 222	33 925	32 892	34 581
Middle East	81	88	88	86	86	84	84	96	120	128
Iran IR	11	11	11	11	11	11	11	14	14	22
Israel	28	28	28	28	28	26	26	26	26	26
Jordan	13	13	13	13	13	13	13	13	13	13
Lebanon	2	9	9	7	7	7	7	7	7	7
Palestine			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	1	9	34	34
Yemen							0	0	0	0
N America	16 326	16 445	16 496	16 279	15 609	15 454	14 906	14 684	14 576	14 500
Canada	2 631	2 700	2 785	2 792	2 685	2 691	2 691	2 700	2 700	2 700
Greenland	1	1	1	1	1	1	1	1	1	1
Mexico	725	843	873	871	871	873	880	882	886	890
USA	12 969	12 901	12 838	12 616	12 053	11 889	11 334	11 102	10 990	10 910
Oceania	1 044	1 079	1 095	1 095	1 095	1 097	1 104	1 104	1 108	1 193
Australia	826	864	864	864	864	871	871	871	874	958
Fiji	47	47	59	59	59	59	66	66	66	66
New Caledon	0	0	0	0	0	0	0	0	0	1
New Zealand	149	146	150	150	150	144	144	144	145	145
Papua N Guin	18	18	18	18	18	18	18	18	18	18
Samoa					0	1	1	1	1	1
Solomon Is	1	1	1	1	1	1	1	1	1	1
Vanuatu	3	3	3	3	3	3	3	3	3	3

Bioenergy Bioénergíe Bioenergía

CAP (MW)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
S America	15 973	16 571	17 147	17 307	17 571	18 007	18 753	19 675	20 367	20 707
Argentina	219	219	227	243	265	333	364	368	376	380
Bolivia	116	131	115	139	144	144	143	192	269	269
Brazil	14 079	14 652	15 039	15 142	15 351	15 712	16 378	17 229	17 485	17 807
Chile	466	463	592	593	596	596	599	599	599	599
Colombia	237	259	312	322	322	330	352	354	386	388
Ecuador	144	146	152	152	152	152	153	153	153	164
Fr Guiana	2	2	2	2	2	2	10	10	16	17
Guyana	45	45	45	45	45	45	45	45	45	45
Paraguay	39	39	39	39	41	41	41	41	41	41
Peru	197	186	196	197	218	218	187	203	203	203
Suriname	2	2	2	2	2	2	2	2	2	2
Uruguay	417	417	417	423	423	423	423	423	737	737
Venezuela	10	10	10	10	10	10	56	56	56	56

Solid biofuels and renewable waste

Biocombustibles sólidos et déchets renouvelables

Biocombustibles sólidos y residuos renovables

CAP (MW)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
World	77 335	85 113	90 066	96 028	100 272	107 490	114 310	119 687	123 072	127 489
Africa	1 458	1 511	1 624	1 733	1 734	1 749	1 802	1 801	1 776	1 867
Angola	51 e	51 e	51 e	51 e	51 e	51 e	51 e	51 e	51 e	51 e
Burundi	4 e	4 e	4 e	4 e	4 e	4 e	4 e	4 e	4 e	4 e
Chad	2 o	2 o	2 o	2 o	2 o	2 o	2 e	2 e	2 e	2 e
Congo DR	0 e	0 e	2 e	3 e	3 e	3 e	3 e	3 e	3 e	3 e
Congo Rep	12 e	12 e	12 e	12 e	12 e	12 e	12 e	12 e	12 e	12 e
Egypt	67	67	67	67	67	67 e	67 e	67 e	67 e	67 e
Eswatini	106	106 e	106 e	106 e	106 e	106 e	106 e	106 e	106 e	106 e
Ethiopia	119	145	205	290	290 e	290	335	335 e	310 e	310 e
Ghana	8 e	8 e	8 e	8 e	8 e	8 e	8 e	8 e	8 e	8 e
Kenya	56 u	82 u	83 u	86 u	86 u	97 u	97 e	97 e	97 e	185 e
Liberia	0 e	0 u	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e
Madagascar	0 o	0 o	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e
Malawi	19 e	19 e	19 e	19 e	19 e	19 e	19 e	19 e	19 e	19 e
Mali	5 e	5 e	40 e	40 e	40 e	40 e	40 e	40 e	40 e	42 e
Mauritius	87 o	87 o	87 o	87 o	87 e	87 e	87 e	87 e	87 e	87 e
Mozambique	73	73	73	73	75	75	75	75	75	75
Namibia	0	0 e	0 e	0 e	0	0 e	0 e	0 e	0 e	0 e
Nigeria	8 e	9 e	9 e	9 e	9 e	13 e	21 e	21 e	21 e	21 e
Reunion	42 e	42 e	42 e	42 e	42 e	42 e	42 e	41 o	41 e	41 e
Rwanda	1 e	1 e	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
Sierra Leone	34 e	34 e	34 e	34 e	34 e	34 e	34 e	34 e	34 e	34 e
South Africa	242 e	242 e	242 e	242 e	242 e	242 e	242 e	242 e	242 e	242 e
Sudan	199 e	199 e	199 e	199 e	199 e	199 e	199 u	199 e	199 e	199 e
Tanzania	67 e	67 e	70 e	70 e	70 e	70 e	70 e	70 e	70 e	70 e
Uganda	65 e	65 e	76 e	96 e	96 e	96 e	96 o	96 e	96 e	96 o
Zambia	43 e	43 e	43 e	43 e	43 e	43 e	43 o	43 e	43 o	43 e
Zimbabwe	100 e	100 e	100 e	100 e	100 e	100 e	100 e	100 e	100 o	100 e
Asia	22 239	28 387	31 508	35 115	39 107	45 749	52 005	55 867	58 853	61 129
Bangladesh	40 u	40 u	40 u	40 u	40 u	40 u	40 u	40 u	40 u	40 e
Cambodia	56 e	54 e	74 e	74 e	74 e	67 e	65 e	74 e	72 e	72 e
China	7 646	8 920	10 780	12 605	15 738	20 965	26 235	28 160	29 765	31 012 e
China HK SAR			28	28	28	28	28	28 e	28 e	28 e
Chinese Taipei	385 o	385 o	385 o	387 o	387 o	387 o	387 o	387 o	395 o	395 o
India	5 469 o	8 885 o	9 405 o	10 124 o	10 212 o	10 518 o	10 578 o	10 655 o	10 738 o	11 223 o
Indonesia	1 679 o	1 711 o	1 748 o	1 766 e	1 771 e	1 775 e	2 135 e	2 937 e	3 219 e	3 259 e
Japan	1 296 e	1 597 e	1 979 e	2 391 e	2 854 e	3 246 e	3 888 e	4 731 e	5 700 e	6 108 e
Korea Rep	255	1 256	1 853	1 899	2 056	2 538	2 102	2 102	2 113 o	2 138 e
Lao PDR	40 o	40 o	40 e	123 e	123 e	123 e	123 e	123 e	123 e	123 e
Malaysia	1 535 o	1 468 o	738 o	740 e	780 e	780 e	780 e	800 e	800 e	800 e
Maldives				0 o	0 e	0 e	0 e	0 e	0 e	0 e
Myanmar	46 e	48 e	51 e	55 e	57 e	57 e	57 e	57 e	57 e	57 e
Nepal	7 e	7 e	7 e	7 e	7 e	6 e	6 e	6 e	6 e	6 o
Pakistan	324 e	365 e	365 e	423 e	423 e	423 o	423 e	423 e	423 e	423 e
Philippines	263 o	280 o	305 o	358 o	410 o	527 o	533 o	648 o	629 o	751 o
Singapore	168 e	169 e	169 o	169 o	165 o	163 o	175 o	233 o	244 o	217 o
Sri Lanka	20 o	24 o	26 o	27 o	40 o	45 o	45 u	45 o	49 o	49 o
Thailand	2 793 e	2 887 e	3 253 e	3 532 e	3 567 e	3 684 e	4 046 e	4 040 e	4 058 e	3 986 e
Viet Nam	218 e	252 e	263 e	368 u	376 e	376 e	360 e	379 e	394 e	442 e
C America + Carib	2 029	2 250	2 398	2 559	2 487	2 610	2 449	2 394	2 429	2 430
Aruba	2	2	2	u	u	u	u	u	u	1 e
Belize	28	28 u	36 u	36 u	36 u	36 u	36 u	36 u	36 e	36 e
Costa Rica	45 o	45 o	45 o	57 o	76 o	76 o	76 o	76 o	76	76 e
Cuba	440 o	405 o	442 o	464 e	369 e	476 e	480 e	424 e	424 o	424 e
Dominican Rep	18 o	18 o	79 o	79 o	79 o	79 o	79 o	79 o	79	79 e
El Salvador	195	252	264 o	299 o	294 o	294 o	295 o	295 e	295 o	295 e
Guadeloupe	30 o	30 o	30 o	30 o	30 o	47 o	47 o	47 o	47 e	47 e
Guatemala	876 o	990 o	1 022 o	1 075 o	1 030 o	1 030 o	864 o	864 o	864 o	864 e
Honduras	168 o	209 o	209 o	209 o	221 o	221 o	221 o	221 o	221 o	221 e
Jamaica	32	32	32	32 e	32 e	32 e	32 e	32 e	32 e	32 e
Martinique	2 o	2 o	2 o	42 u	42 e	42 e	42 e	42 e	45 e	45 e
Nicaragua	134 o	177	177	177 o	218 o	218 o	218 e	218 e	218 e	218 e
Panama	60 e	60 e	60 e	60 e	60 e	60 e	60 e	60 e	92 o	92 e
St Lucia		0	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e
Eurasia	75	118	151	200	286	405	699	827	900	900
Azerbaijan	37	37 e	42	44 o	44 e	44	44 e	44	37 u	37
Georgia								0 o	0 o	0 o
Russian Fed	26 e	26 e	26 e	26 e	26 e	27 e	110 e	112 e	112 e	112 e
Türkiye	12	55	83	130	216	334	545 e	670	751	751 e

Solid biofuels and renewable waste

Biocombustibles sólidos et déchets renouvelables

Biocombustibles sólidos y residuos renovables

CAP (MW)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Europe	21 564	22 159	23 153	25 277	25 828	25 839	25 920	26 639	26 353	28 015
Albania			1 u	1 u	1 u	1 e	1 e	1	1 o	1 e
Andorra	5 o	5 o	5 o	5 o	5 o	5 e	5 e	5	5 e	5 e
Austria	1 202 e	1 188 e	1 108 e	1 094 o	1 085 e	1 086 e	1 005 e	1 029 o	1 050 o	1 098 o
Belarus	13	13	13	16	16	86	83	101	101 u	101
Belgium	716 e	691 e	685 e	652 e	665 e	700 e	594 e	635 e	591 o	546 e
Bosnia Herzg	o	o	o	0 o	1 o	1 o	9 o	9 e	9 o	9 e
Bulgaria	34 o	19 o	23 o	33 e	24 e	15 o	14	41 o	41 o	41 e
Croatia	25 o	26 o	42 o	65 o	76 o	80 o	95	101 o	97 o	99 o
Czechia	403 e	404 e	430 e	413 e	462 o	480 e	484 e	483 o	445 u	445 e
Denmark	1 139 e	1 198 e	1 683 e	1 666 e	1 862 e	1 955 e	2 023 e	1 882 o	1 842 e	1 842 e
Estonia	270 o	270 o	270 e	250 o	265 o	285 o	285 o	285 o	285 o	285 o
Finland	1 885 e	1 895 e	2 114 e	2 114 o	2 111 o	2 590 o	2 546 o	2 983 o	2 856 o	3 073 o
France	1 130 o	1 231 o	1 248 o	1 435 o	1 482 o	1 364 o	1 465 o	1 488 o	1 513 o	2 774 e
Germany	2 554 o	2 579 o	2 605 e	2 648 e	2 682 e	2 595 e	2 628 o	2 615 o	2 594 o	2 614 e
Greece	2 e	2 e	3 e	12 o	13 o	14 o	16	16 o	17 o	43 o
Ireland	16 e	16 e	47 e	47 e	48 o	48 o	48 e	48	48 e	48 e
Italy	1 031 e	1 094 e	1 092 e	1 145 e	1 124 e	1 128 e	1 120 e	1 097 o	1 112 o	1 108 e
Latvia	66 o	81 o	94 o	97 o	97 e	96 e	95 o	90 o	86 o	86 e
Lithuania	50 o	47 o	54 o	69 o	70 o	80 o	79 o	81	132 o	97 o
Luxembourg	13 o	13 o	23 o	24 e	44 e	44 o	44 o	45 o	81 o	83 o
Netherlands	549	548	557 o	616 o	613 o	666 o	678 o	692 o	689 e	689 e
North Macedonia				1 o	2 o	2 e	3 o	3 e	3 e	3 e
Norway	123 e	77 e	77 e	77 e	74 e	66 e	70 e	70 e	74 e	74 e
Poland	745 e	749 e	738 e	778 e	777 e	784 e	848 e	939 e	900 e	900 o
Portugal	511 o	519 o	512 o	577 o	630 o	644 o	644 e	634 o	634 e	634 o
Romania	104 e	107 e	119 e	119 e	119 e	136 e	109 e	161 o	134 o	135 o
Serbia	1 e	1 e	2 e	2 e	2 e	2 e	2 e	2 e	18 e	18 e
Slovakia	151 o	160 o	155 o	154 o	144 e	143 e	169 e	187 o	121 o	121 e
Slovenia	30 o	30 o	33 o	32 o	34 o	35 o	36	36 o	36 o	26 o
Spain	789 o	789 o	793 o	793 o	839 o	989 o	1 001 o	1 001 o	1 001 o	1 008 o
Sweden	4 138 e	4 333 e	4 273 e	4 484 e	4 402 e	3 565 e	3 479 e	3 610 o	3 527 e	3 527 e
Switzerland	211	212	212 e	212 o	211 o	211 o	198 o	198 o	198 e	198
UK	3 180	3 477	3 695	5 161	5 339	5 417	5 428	5 470 o	5 493 o	5 543 o
Ukraine	35	39	39 o	52 o	87	109	152 u	152 e	178 e	200 o
European Union (27)	17 917	18 233	18 977	19 655	19 999	19 853	19 881	20 522	20 182	21 772
Middle East	18	18	18	18	18	15	15	15	38	38
Israel	3 e	3 e	3 e	3 e	3 e	o				
Qatar	15 e	15 e	15 e	15 e	15 e	15 e	15 e	15 e	15 e	15 e
United Arab Em								e	23 o	23 e
Yemen							0 o	0 e	0 e	0 e
N America	13 526	13 636	13 619	13 396	12 914	12 867	12 453	12 308	12 220	12 164
Canada	2 359 e	2 428 e	2 509 e	2 515 e	2 408 e	2 408 e	2 408 e	2 416 e	2 416 e	2 416 e
Greenland	1 o	1 o	1 o	1 o	1 o	1 o	1 o	1 o	1 e	1 e
Mexico	685 o	796 o	816 o	816 o	816 o	816 o	816 o	816 o	817 o	817 e
USA	10 482 o	10 411 o	10 294 o	10 065 o	9 690 o	9 642 o	9 229 o	9 075 o	8 986 o	8 931 e
Oceania	759	835	852	852	852	846	854	854	855	971
Australia	598	674 o	674 e	674 e	674 e	674 e	674 e	674 e	674 e	789 e
Fiji	47 u	47 e	59 u	59 e	59 e	59 e	66 e	66 e	66 e	66 e
New Caledon										1 o
New Zealand	99	99	104	104	104	98	98 o	98 o	99 o	99 o
Papua N Guin	15 u	15 u	15 u	15 u	15 e	15 e	15 e	15 e	15 e	15 e
Samoa						1 e	1 e	1 e	1 e	1 e
Solomon Is	1 u	1 u	1 u	1 u	1 e	1 e	1 e	1 e	1 e	1
S America	15 668	16 199	16 743	16 879	17 045	17 410	18 112	18 983	19 648	19 976
Argentina	201 o	201 o	204 o	218 o	220 o	276 e	296 e	296 o	296 e	296 e
Bolivia	116	131	115	139	144	144	143	192	269 o	269 e
Brazil	13 854 o	14 372 o	14 743 o	14 831 o	14 968 o	15 273 o	15 909 o	16 713 o	16 949 o	17 264 o
Chile	417 e	410 e	533 u	533 o	533 o	533 o	536 o	536 o	536 o	536 e
Colombia	237 u	253 u	306 u	316 u	316 e	319 e	342 e	343 u	376 e	378 e
Ecuador	144 o	144 o	144 e	144 e	144 o	144 o	144 o	144	144	155 o
Fr Guiana	2 o	2 o	2 o	2 o	2 o	2 o	10 u	10 e	16 e	16 e
Guyana	45 u	45 u	45 u	45 e	45 e	45 e	45 e	45 e	45 e	45 u
Paraguay	39	39	39	39 e	39 e	39 e	39 e	39 e	39 e	39 e
Peru	187 o	176 o	186 o	186 o	208 o	208 e	177 o	192 o	192 e	192 e
Suriname	2 o	2 o	2 o	2 o	2 o	2 o	2 o	2 o	2 e	2 e
Uruguay	415 o	415 o	415 o	415 o	415 e	415 o	415 e	415 o	729 o	729 o
Venezuela	10 o	10 o	10 o	10 o	10 o	10 o	56 o	56 o	56 o	56 e

Bagasse Bagasse Bagazo

CAP (MW)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
World	19 894	19 704	20 046	21 587	21 645	22 007	22 058	22 145	22 376	22 875
Africa	1 415	1 467	1 576	1 658	1 660	1 671	1 716	1 715	1 715	1 803
Angola	51 e	51 e	51 e	51 e	51 e	51 e	51 e	51 e	51 e	51 e
Burundi	4 e	4 e	4 e	4 e	4 e	4 e	4 e	4 e	4 e	4 e
Chad	2 o	2 o	2 o	2 o	2 o	2 o	2 e	2 e	2 e	2 e
Congo Rep	5 e	5 e	5 e	5 e	5 e	5 e	5 e	5 e	5 e	5 e
Egypt	67	67	67	67	67	67 e	67 e	67 e	67 e	67 e
Eswatini	106	106 e	106 e	106 e	106 e	106 e	106 e	106 e	106 e	106 e
Ethiopia	119	145	205	265	265	265	310	310 e	310 e	310 e
Kenya	56 u	82 u	83 u	86 u	86 u	97 u	97 e	97 e	97 e	185 e
Malawi	19 e	19 e	19 e	19 e	19 e	19 e	19 e	19 e	19 e	19 e
Mali	5 e	5 e	40 u	40 e	40 e	40 e	40 e	40 e	40 e	40 e
Mauritius	87 o	87 o	87 o	87 o	87 e	87 e	87 e	87 e	87 e	87 e
Mozambique	73	73	73	73	75	75	75	75	75	75
Nigeria	5 u	5 u	5 u	5 u	5 e	5 e	5 e	5 e	5 e	5 e
Reunion	42 e	42 e	42 e	42 e	42 e	42 e	42 e	41 o	41 e	41 e
Rwanda	1 e	1 e	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
Sierra Leone	32 e	32 e	32 e	32 e	32 e	32 e	32 e	32 e	32 e	32 e
South Africa	242 e	242 e	242 e	242 e	242 e	242 e	242 e	242 e	242 e	242 e
Sudan	199 e	199 e	199 e	199 e	199 e	199 e	199 u	199 e	199 e	199 e
Tanzania	46 o	46 o	46 e	46 e	46 e	46 e	46 e	46 e	46 e	46 e
Uganda	65 e	65 e	76 e	96 e	96 e	96 e	96 o	96 e	96 e	96 o
Zambia	43 e	43 e	43 e	43 e	43 e	43 e	43 o	43 e	43 o	43 e
Zimbabwe	100 e	100 e	100 e	100 e	100 e	100 e	100 e	100 e	100 o	100 e
Asia	2 856	2 095	2 090	3 287	3 353	3 356	3 439	3 229	3 219	3 342
Bangladesh	40 u	40 u	40 u	40 u	40 u	40 u	40 u	40 u	40 u	40 e
Cambodia	16 o	16 o	36 o	36 o	36 e	27 e	27 e	27 o	27 o	27 o
Indonesia	219 o	219 o	219 o	219 o	219 e	219 e	240 e	260 e	270 e	270 e
Lao PDR	40 o	40 o	40 e	107 e	107 e	107 e	107 e	107 e	107 e	107 e
Myanmar	46 e	48 e	47 e	52 e	54 e	54 e	54 e	54 e	54 e	54 e
Nepal	6 e	6 e	6 e	6 e	6 e	6 e	6 e	6 e	6 e	6 o
Pakistan	314 e	314 e	314 e	372 o	372 o	372 o	372 e	372 e	372 e	372 e
Philippines	201 o	213 o	213 o	260 o	285 o	374 o	374 o	407 o	383 o	465 o
Sri Lanka									4 o	4 o
Thailand	1 767 e	958 e	924 e	1 842 e	1 874 e	1 797 e	1 875 e	1 603 e	1 603 e	1 603 e
Viet Nam	207 e	241 e	251 e	353 u	360 e	360 e	344 e	353 e	353 e	395 e
C America + Carib	1 975	2 154	2 272	2 430	2 361	2 467	2 306	2 251	2 284	2 284
Belize	28	28 u	36 u	36 u	36 u	36 u	36 u	36 u	36 e	36 e
Costa Rica	40 o	40	40	53 o	71 o	71 o	71 o	71 o	71	71 o
Cuba	439 o	404 o	441 o	463 o	369 o	475 o	479 o	424 o	424 o	424 e
Dominican Rep	18 o	18 o	48 o	48 o	48 o	48 o	48 o	48 o	48 o	48 e
El Salvador	195	252	264 o	294 o	294 o	294 o	295 o	295 e	295 o	295 e
Guadeloupe	30 o	30 o	30 o	30 o	30 o	30 o	30 o	30 o	30 e	30 e
Guatemala	874 o	989 o	1 021 o	1 074 o	1 029 o	1 029 o	863 o	863 o	863 o	863 e
Honduras	125 o	125 o	125 o	125 o	135 o	135 o	135 o	135 o	135 o	135 e
Jamaica	32	32	32	32 e	32 e	32 e	32 e	32 e	32 e	32 e
Martinique				40 u	40 e	40 e	40 e	40 e	40 e	40 e
Nicaragua	134 o	177	177	177 o	218 o	218 o	218 e	218 e	218 e	218 e
Panama	60 e	60 e	60 e	60 e	60 e	60 e	60 e	60 e	92 o	92 e
Europe	2	2	2	2	2	2	2	2	2	2
Portugal	2 o	2 o	2 o	2 o	2 o	2 o	2 e	2	2 e	2 o
N America	912	976	985	985	985	985	984	984	984	984
Mexico	684 o	795 o	815 o	815 o	815 o	815 o	814 o	814 o	814 o	814 e
USA	227 o	181 o	170 o	170 o	170 o	170 o	170 o	170 o	170 o	170 e
Oceania	458	534	534	534	534	534	542	542	542	542
Australia	424	500 o	500 o	500 o	500 e	500 e	500 e	500 e	500 e	500 e
Fiji	34 u	34 e	34 u	34 e	34 e	34 e	42 e	42 e	42 e	42 e

Bagasse Bagasse Bagazo

CAP (MW)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
S America	12 275	12 475	12 587	12 691	12 749	12 991	13 068	13 422	13 631	13 918
Argentina	153 o	153 o	153 o	153 o	155 o	155 o	155 o	155 o	155 o	155 e
Bolivia	116	131	115	139	144	144	143	192	269 o	269 e
Brazil	11 333 o	11 512 o	11 576 o	11 646 o	11 676 o	11 930 o	12 022 o	12 309 o	12 409 o	12 685 o
Colombia	237 u	253 u	306 u	316 u	316 e	319 e	336 e	338 u	370 e	370 e
Ecuador	144 o	144 o	144 e	144 e	144 o	144 o	144 o	144	144	155 o
Guyana	45 u	45 u	45 u	45 u	45 u	30 u	30 u	30 u	30 u	30 u
Paraguay	39	39	39	39 e	39 e	39 e	39 e	39 e	39 e	39 e
Peru	187 o	176 o	186 o	186 o	208 o	208 e	177 o	192 o	192 e	192 e
Uruguay	13 o	13 o	13 o	13 o	13 o	13 o	13 o	13 o	13 o	13 o
Venezuela	10 o	10 o	10 o	10 o	10 o	10 o	10 o	10 o	10 o	10 e

Renewable municipal waste

Déchets municipaux renouvelables

Resíduos municipales renovables

CAP (MW)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
World	9 736	10 541	11 454	12 628	14 123	15 932	18 844	20 189	21 237	21 761
Africa				25	25	25	25	25		
Ethiopia				25	25 e	25	25	25 o		
Asia	3 995	4 534	5 329	6 377	7 834	9 607	12 672	14 098	15 100	15 698
China	2 342	2 870	3 640	4 575	6 009	7 665	10 645	11 930	12 885	13 425 e
Chinese Taipei	315 o	315 o	315 o	316 o	316 o	316 o	316 o	316 o	333 o	333 o
India	137 o	139 o	146 o	159 o	165 o	188 o	217 o	260 o	291 o	310 o
Indonesia	8 o	8 o	8 o	8 o	8 o	8 o	14 o	12 o	18 o	18 e
Japan	900	919	935	958	975	1 027	1 050	1 057	1 034 o	1 089 o
Korea Rep	95	77	54	64	64	91	91	91	92 o	94 e
Malaysia	7 o	7 o	7 o	7 o	7 o	7 o	7 o	26 u	26 e	26 e
Maldives					0 o	0 e	0 e	0 e	0 e	0 e
Myanmar			0 u	0 e	0 e	0 e	0 e	0 e	0	0 e
Philippines										0 o
Singapore	128 o	128 o	128 o	128 o	128 o	128 o	128 o	197 o	197 o	173 o
Sri Lanka						5 o	5 u	5 o	5 o	5 o
Thailand	66 o	73 o	96 o	159 o	157 o	167 o	194 o	188 o	188 o	188 o
Viet Nam			1 u	5 u	5 u	5 u	5 u	15 u	30 u	36 e
C America + Carib	4	4	4	2	2	2	2	2	5	6
Aruba	2	2	2	u	u	u	u	u	u	1 e
Martinique	2 o	2 o	2 o	2 o	2 o	2 o	2 o	2 o	5 o	5 e
Eurasia	37	37	42	45	46	46	98	98	98	98
Azerbaijan	37	37 e	42	44 o	44 e	44	44 e	44	37 u	37
Türkiye				1	2	2	54	54	61	61 e
Europe	4 513	4 777	4 892	5 003	5 097	5 133	4 922	4 874	4 922	4 921
Albania			1 u	1 u	1 u	1 e	1 e	1	1 o	1 e
Andorra	5 o	5 o	5 o	5 o	5 o	5 e	5 e	5	5 e	5 e
Austria	263 o	271 o	271 o	270 o	272 o	270 o	240 o	245 o	245 o	293 o
Belgium	124 o	125 o	125 o	125 o	126 o	136 o	146 o	147 o	143 o	124 o
Czechia	23 o	28 o	28 e	28 o	28 o	28 e	28 e	28	28 u	28 e
Denmark	166 o	166 o	182 o	181 o	181	178 o	176 o	174 o	174 o	174 e
Estonia	105 o	105 o	105 e	85 o	85 o	85 o	85 o	85	85 o	85 o
Finland	134 e	148 e	148 e	148 o	148 o	148 o	148 o	148 o	148 o	118 o
France	602 o	619 o	624 o	607 o	608 o	555 o	566 o	577 o	486 o	486 e
Germany	962 o	979 o	1 004 o	1 063 o	1 084 o	1 024	1 041 o	1 023 o	1 004 o	1 004 e
Ireland	11 o	11 o	41 o	41 o	41 o	41 o	41 o	41	41 e	41 o
Italy	415 o	409 o	408 o	412 o	396 o	402 o	418 o	396 o	417 o	417 e
Lithuania	5 o	8 o	9 o	7 o	7 o	17 o	21 o	19	20 o	20 o
Luxembourg	9 o	9 o	9 o	9 e	9 e	9 o	9 o	9	9 o	9 o
Netherlands	338	338	338 o	393 o	393 o	394 o	394 o	394 o	394 e	394 e
Norway	44 o	50 o	50 o	50 o	47 o	46 o	43 o	43	44 o	44 o
Poland	8 o	22 o	30 o	43 o	45 o	50 o	45 o	45	45 e	45 o
Portugal	40 o	42 o	41 o	41 o	41 o	41 o	41 o	41 o	41 o	41 o
Serbia									15 o	15 o
Slovakia	6 o	10 o	6 o	6 o	6 e	6 e	6 e	7 o	6 o	6 e
Spain	117 o	117 o	121 o	121 o	121 o	121 o	133 o	133 o	133 o	133 o
Sweden	438 o	564 o	567 o	566 o	568 o	623 o	386 o	336 o	438 o	438 e
Switzerland	211	212	212 e	212 o	211 o	211 o	198 o	198 o	198 e	198
UK	465	514	545	568	655	717	725	755 o	779 o	779 o
European Union (27)	3 791	3 999	4 081	4 169	4 181	4 155	3 952	3 874	3 884	3 883
Middle East	18	18	18	18	18	15	15	15	35	35
Israel	3 e	3 e	3 e	3 e	3 e	o				
Qatar	15 e	15 e	15 e	15 e	15 e	15 e	15 e	15 e	15 e	15 e
United Arab Em								e	20 o	20 e
N America	1 166	1 168	1 167	1 155	1 098	1 099	1 097	1 064	1 064	968
Canada	41 o	43 o	44 o	38 e	38 e	38 o	38 o	38 o	38 o	38 e
Greenland	1 o	1 o	1 o	1 o	1 o	1 o	1 o	1 o	1 e	1 e
USA	1 124 o	1 124 o	1 123 o	1 117 o	1 060 o	1 061 o	1 058 o	1 025 o	1 025 o	930 o

Renewable municipal waste Déchets municipaux renouvelables Residuos municipales renovables

CAP (MW)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Oceania										20
Australia New Caledon										19 u 1 o
S America	2	2	2	2	2	4	12	13	14	16
Brazil Colombia	2 o	2 o	2 o	2 o	2 o	4 o	12 o	13 o	14 o	14 o 2 o

Other solid biofuels Autres biocarburants solides Otros biocombustibles sólidos

CAP (MW)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
World	47 705	54 868	58 565	61 813	64 503	69 551	73 409	77 353	79 459	82 852
Africa	43	44	49	49	49	53	61	61	61	63
Congo DR	0 e	0 e	2 e	3 e	3 e	3 e	3 e	3 e	3 e	3 e
Congo Rep	7 e	7 e	7 e	7 e	7 e	7 e	7 e	7 e	7 e	7 e
Ghana	8 e	8 e	8 e	8 e	8 e	8 e	8 e	8 e	8 e	8 e
Liberia	0 e	0 u	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e
Madagascar	0 o	0 o	0 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	2 e
Namibia	0	0 e	0 e	0 e	0	0 e	0 e	0 e	0 e	0 e
Nigeria	3 e	4 e	4 e	4 e	4 e	8 e	16 e	16 e	16 e	16 e
Sierra Leone	2 e	2 e	2 e	2 e	2 e	2 e	2 e	2 e	2 e	2 e
Tanzania	21 e	21 e	24 e	24 e	24 e	24 e	24 e	24 e	24 e	24 e
Zimbabwe	1 e	1 e	1 e	1 e	1 e	1 e	1 e	1 e	1 o	1 e
Asia	15 387	21 759	24 088	25 451	27 920	32 787	35 894	38 540	40 534	42 088
Bangladesh	0 o	0 o	0 o	0 o	0 o	0 o	0 o	0 o	0 o	0 o
Cambodia	40 e	38 e	38 e	38 e	38 e	40 e	38 e	47 e	45 e	45 e
China	5 304	6 050	7 140	8 030	9 729	13 300	15 590	16 230	16 880	17 587 e
China HK SAR			28	28	28	28	28	28 e	28 e	28 e
Chinese Taipei	71 o	71 o	71 o	71 o	71 o	71 o	71 o	71 o	61 o	61 o
India	5 332 o	8 746 o	9 258 o	9 965 o	10 046 o	10 331 o	10 361 o	10 395 o	10 447 o	10 913 o
Indonesia	1 452 o	1 484 o	1 522 o	1 540 e	1 545 e	1 548 e	1 881 e	2 665 e	2 931 e	2 971 e
Japan	396 e	678 e	1 044 e	1 433 e	1 879 e	2 219 e	2 838 e	3 674 e	4 666 e	5 019 e
Korea Rep	160	1 179	1 799	1 835	1 992	2 447	2 011	2 011	2 021 o	2 044 e
Lao PDR			16 o	16 o	16 o	16 e	16 e	16 e	16 e	16 e
Malaysia	1 528 o	1 462 o	732 o	734 e	774 e	774 e	774 e	774 e	774 e	774 e
Myanmar	0 e	0 e	3 e	3 e	3 e	3 e	3 e	3 e	3 e	3 e
Nepal	1 e	1 e	1 e	1 e	1 e					
Pakistan	10 e	51 e	51 e	51 e	51 e	51 o	51 e	51 e	51 e	51 e
Philippines	62 o	67 o	91 o	97 o	124 o	153 o	159 o	241 o	247 o	286 o
Singapore	40 e	41 e	41 o	41 o	37 o	35 o	47 o	36 o	47 o	44 o
Sri Lanka	20 o	24 o	26 o	27 o	40 o	40 o	40 o	40 o	40 o	40 o
Thailand	960 e	1 857 e	2 233 e	1 531 e	1 536 e	1 720 e	1 977 e	2 249 e	2 267 e	2 195 e
Viet Nam	11 u	11 u	11 u	11 u	11 e	11 e	11 e	11 e	11 e	11 e
C America + Carib	50	91	122	127	123	140	140	140	140	140
Costa Rica	5 o	5 o	5 o	5 o	5 o	5 o	5 o	5 o	5	5 e
Cuba	1 o	1 o	1 o	1 e	1 e	1 e	1 e	1 e	1 o	1 e
El Salvador				5 o						
Guadeloupe	1 o	1 o				17 o	17 o	17 o	17 e	17 e
Guatemala	1 o	1 o	1 o	1 o	1 o	1 o	1 o	1 o	1 o	1 e
Honduras	43 o	84 o	84 o	84 o	86 o	86 o	86 o	86 o	86 o	86 o
St Lucia		0	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e
Eurasia	38	81	109	155	240	359	601	728	802	802
Georgia								0 o	0 o	0 o
Russian Fed	26 e	26 e	26 e	26 e	26 e	27 e	110 e	112 e	112 e	112 e
Türkiye	12	55	83	129	214	332	491 e	616	690	690 e

Other solid biofuels Autres biocarburants solides Otros biocombustibles sólidos

CAP (MW)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Europe	17 049	17 380	18 258	20 272	20 729	20 703	20 996	21 763	21 429	23 091
Austria	939 e	917 e	838 e	824 o	813 e	816 e	765 e	784 o	805 o	805 o
Belarus	13	13	13	16	16	86	83	101	101 u	101
Belgium	591 e	566 e	559 e	526 e	539 e	564 e	448 e	489 e	448 o	422 e
Bosnia Herzg	o	o	o	0 o	1 o	1 o	9 o	9 e	9 o	9 e
Bulgaria	34 o	19 o	23 o	33 e	24 e	15 o	14	41 o	41 o	41 e
Croatia	25 o	26 o	42 o	65 o	76 o	80 o	95	101 o	97 o	99 o
Czechia	380 e	376 e	402 e	385 e	434 o	452 e	456 e	455 o	417 u	417 e
Denmark	973 e	1 032 e	1 501 e	1 485 e	1 681 e	1 777 e	1 848 e	1 707 o	1 668 e	1 668 e
Estonia	165 o	165 o	165 o	165 o	180 o	200 o	200 o	200 o	200 o	200 o
Finland	1 751 o	1 747 o	1 966 o	1 966 o	1 963 o	2 442 o	2 398 o	2 835 o	2 708 o	2 955 o
France	528 o	612 o	624 o	828 o	875 o	810 o	899 o	911 o	1 027 o	2 288 e
Germany	1 592 o	1 600 o	1 601 e	1 585 e	1 598 e	1 571 e	1 587 o	1 592 o	1 590 o	1 610 e
Greece	2 e	2 e	3 e	12 o	13 o	14 o	16	16 o	17 o	43 o
Hungary	422 o	322 o	386 o	414 o	402 o	397 o	438 o	424 o	418 o	518 o
Ireland	5 e	5 e	5 e	5 e	7 o	7 o	7 e	7	7 e	7 e
Italy	616 e	685 e	684 e	733 e	728 e	726 e	702 e	701 o	695 o	691 e
Latvia	66 o	81 o	94 o	97 o	97 e	96 e	95 o	90 o	86 o	86 e
Lithuania	45 o	39 o	45 o	62 o	63 o	63 o	58 o	62	112 o	77 o
Luxembourg	4 o	4 o	15 o	15 o	35 o	35 o	35 o	36 o	73 o	75 o
Netherlands	210	210	218 o	223 o	220 o	272 o	284 o	298 o	295 o	295 e
North Macedonia				1 o	2 o	2 e	3 o	3 e	3 e	3 e
Norway	79 e	27 e	27 e	27 e	27 e	20 e	27 e	27 e	30 e	30 e
Poland	737 e	727 e	709 e	735 e	732 e	734 e	803 e	894 e	855 e	855 o
Portugal	469 o	475 o	469 o	534 o	587 o	601 o	601 e	591 o	591 e	591 o
Romania	104 e	107 e	119 e	119 e	119 e	136 e	109 e	161 o	134 o	135 o
Serbia	1 e	1 e	2 e	2 e	2 e	2 e	2 e	2 e	2 e	2 e
Slovakia	145 o	150 o	149 o	148 o	138 o	137 o	163	180 o	115 o	115 e
Slovenia	30 o	30 o	33 o	32 o	34 o	35 o	36	36 o	36 o	26 o
Sweden	3 700 e	3 769 e	3 706 e	3 918 e	3 834 e	2 942 e	3 093 e	3 274 o	3 089 e	3 089 e
UK	2 715	2 963	3 150	4 593	4 684	4 693	4 702	4 714	4 714	4 764 o
Ukraine	35	39	39 o	52 o	87	109	152 u	152 e	178 e	200 o

Other solid biofuels
Autres biocarburants solides
Otros biocombustibles sólidos

CAP (MW)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
European Union (27)	14 052	14 160	14 822	15 372	15 704	15 583	15 815	16 535	16 185	17 776
Middle East							0	0	3	3
United Arab Em									3	3 e
Yemen							0 o	0 e	0 e	0 e
N America	11 449	11 492	11 468	11 255	10 830	10 783	10 372	10 260	10 172	10 212
Canada	2 318 e	2 385 e	2 465 e	2 477 e	2 370 e	2 370 e	2 370 e	2 378 e	2 378 e	2 378 e
Mexico	1 o	1 o	1 o	1 o	1 o	1 o	2 o	2 o	3 o	3
USA	9 130 o	9 106 o	9 002 o	8 778 o	8 459 o	8 411 o	8 000 o	7 880 o	7 791 o	7 831 e
Oceania	300	300	317	317	317	312	312	312	313	409
Australia	174	174	174 e	174 e	174 o	174 e	174 e	174 e	174 e	270 o
Fiji	12 u	12 u	24 u	24 u	24 e	24 e	24 e	24 e	24 e	24 e
New Zealand	99	99	104	104	104	98	98 o	98 o	99 o	99 o
Papua N Guin	15 u	15 u	15 u	15 u	15 e	15 e	15 e	15 e	15 e	15 e
Samoa						1 e	1 e	1 e	1 e	1 e
Solomon Is	1 u	1 u	1 u	1 u	1 e	1 e	1 e	1 e	1 e	1
S America	3 390	3 721	4 154	4 186	4 294	4 414	5 032	5 548	6 003	6 042
Argentina	48 o	48 o	51 o	65 o	65 o	122 e	141 e	141 o	141 e	141 e
Bolivia	1	1								
Brazil	2 519 o	2 857 o	3 165 o	3 183 o	3 290 o	3 339 o	3 874 o	4 390 o	4 526 o	4 565 o
Chile	417 e	410 e	533 u	533 o	533 o	533 o	536 o	536 o	536 o	536 e
Colombia			0 o	0 o			6 o	6 o	6 o	6 e
Fr Guiana	2 o	2 o	2 o	2 o	2 o	2 o	10 u	10 e	16 e	16 e
Guyana	0 u	0 u	0 u	0 e	0 e	15 e	15 e	15 e	15 e	15 u
Suriname	2 o	2 o	2 o	2 o	2 o	2 o	2 o	2 o	2 e	2 e
Uruguay	402 o	402 o	402 o	402 o	402 e	402 o	402 e	402 o	716 o	716 o
Venezuela							46 o	46 o	46 o	46 e

Liquid biofuels

Biocarburants liquides

Biocarburantes líquidos

CAP (MW)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
World	2 356	2 282	2 317	2 428	3 326	3 235	2 738	2 761	1 994	2 000
Africa	1	1	1	42	42	42	42	42	42	42
Burkina Faso	0 u	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e
Liberia			0 u	0 e	0 e	0 e	0 e	0 e	0 e	0 e
Mali	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e
Reunion				41 o	41 o	41 o	41 o	41 e	41 e	41 e
Tanzania	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e
Asia	361	360	359	348	1 020	950	487	487	490	496
Korea Rep	361	360	359	348	1 020	950	487	487	490 o	496 e
Eurasia	7	7	12	19	19	23	51	65	79	79
Türkiye	7	7	12	19	19	23	51	65	79	79 e
Europe	1 865	1 792	1 813	1 836	2 175	2 150	2 088	2 085	1 300	1 300
Austria	3 o	3 o	1 o	1 o	1 o	0 o	0 o	0 o	0 o	0 e
Belgium	49 o	45 o	45 o	45 o	45 e	23 o	19 o	30 o	34 o	34 e
Denmark	1 o	0 o	1 o	1 o						
France	3 o	4 o	0 o	0 o	0 o	15 o	10 o	11 o	6 o	6 e
Norway									2 o	2 e
Poland	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0	0 e	0 e
Slovenia	1 o	1 o	1 o	1 o	1 o	1 o	1 e	1	1 e	1 e
Spain				6 o	6 o	6 o	6 o	6 o	6 e	6 e
Sweden	576 o	515 o	547 o	535 o	895 o	895 o	895 o	895	126 o	126 e
N America	115	115	125	175	62	62	62	62	62	62
USA	115 o	115 o	125 o	175 o	62 o	62 o	62 o	62 o	62 o	62 e
Oceania	3	3	3	3	3	3	3	3	3	3
Fiji	0 u	0 u	0 u	0 u	0 e	0 e	0 e	0 e	0 e	0 e
New Caledon	0 o	0 o	0 o	0 o	0 e	0 e	0 e	0 e	0 e	0 e
Solomon Is	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0
Vanuatu	3 e	3 e	3 e	3 e	3 e	3 e	3 e	3 e	3 e	3 e
S America	4	4	4	4	4	4	4	17	17	17
Brazil	4 o	4 o	4	4 o	4 o	4 o	4 o	17 o	17 o	17 o

Biogas Biogaz Biogás

CAP (MW)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
World	15 908	16 646	17 489	18 512	19 305	20 138	20 289	20 706	21 079	21 274
Africa	26	35	38	43	54	54	99	99	107	107
Burkina Faso	1 o	1 o	1 o	1 e	1 e	1 e	1 e	1 e	1 e	1 e
Egypt					12 o	12 e	56 e	56 e	64 o	64 e
Gabon	1 e	1 e	1 e	1 e	1 e	1 e	1 e	1 e	1 e	1 e
Ghana	0 o	0 o	0 e	0 o	0 e	0 o	0 e	0 e	0 o	0 e
Kenya	3 e	3 e	2 e	2 e	2 e	2 e	2 e	2 e	2 e	2 e
Mali	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e
Mauritius	3	3 o	3 e	3 e	3 e	3 e	3 e	3 e	3 e	3 e
Morocco	5 o	7	7	7	7	7	7 e	7 e	7 e	7 e
Nigeria	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e
Reunion	3 o	4 o	4 e	4 o	4 e	4 e	4 e	4 e	4 e	4 e
South Africa	9 e	14 e	18 e	23 u	23 e	23 e	23 e	23 e	23 e	23 e
Tanzania	1 o	1 u	1 e	1 e	1 e	1 e	1 e	1 e	1 e	1 e
Asia	985	1 143	1 377	1 632	1 880	2 036	2 376	2 550	2 751	2 809
Bangladesh	4 e	5 e	5 e	5 e	5 e	5 e	5 e	5 e	5 e	5 e
Cambodia	2 e	2 e	2 e	2 e	2 e	2 e	2 e	2 e	2 e	2 e
China	331	350	454	630	799	890	1 110	1 230	1 490	1 552 e
China HK SAR		e	17	17	24	24	24	30 e	30 e	30 e
Chinese Taipei	9 o	9 o	9 o	10 o	8 o	16 o	14 o	21 o	21 o	23 o
India	10 e	10 e	13 e	14 e	14 e	14 e	14 e	14 e	14 e	14 e
Indonesia	55 o	64 e	101 e	109 e	112 o	118 e	135 e	149 e	156 e	156 e
Japan	23	34	47	59	70	78	88	94	105 o	112 o
Kazakhstan	0	0	1 o	1 o	2 e	8	8 e	8	14 o	1 o
Korea Rep	113	129	136 o	140	139	140	142	142	143 o	145 e
Lao PDR			0 o	0 o	0 o	0 o	0 o	0 e	0 e	0 e
Malaysia	20 o	58 o	62 o	70 o	103 e	111 e	124 e	138 e	138 e	138 e
Myanmar	1 e	1 e	1 e	1 e	1 e	1 e	1 e	1 e	1 e	1 e
Nepal			0 u	0 u	0 u	0 u	1 u	1 u	1 u	1 e
Pakistan	9 e	9 e	9 e	9 e	9 e	9 e	9 e	9 e	9 e	9 e
Philippines	32 e	32 e	34 e	47 e	47 e	49 e	49 e	48 e	48 e	49 e
Sri Lanka	0 o	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 e	0 e
Thailand	373	435	475	505 o	530 o	557 o	635 o	643 o	559 o	557 o
Timor Leste	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e
Viet Nam	2 u	4 e	11 e	14 e	14 e	14 e	14 e	14 e	14 e	14 e
C America + Carib	19	25	39	40	40	43	44	65	66	67
Bahamas	1 e	1 e	1 e	1 e	1 e	1 e	1 e	1 e	1 e	2 e
Costa Rica	5 o	5 o	5 o	5 o	5 o	5 o	5 o	5 o	5	5 e
Cuba	1 e	1 e	1 e	1 e	1 e	1 e	2 e	15 e	15 e	15 e
Dominican Rep	2 o	2	2	2	2	2	2	4	4	4 e
El Salvador	7 o	7 o	7 o	7	7	7 o	6 e	8 o	8 o	8 e
Guadeloupe	0	0	2 o	4 o	4 o	4 o	4 o	4 o	4 o	4 o
Guatemala	2 o	2 o	6 o	6 o	6 o	6 o	6 o	6 o	6 o	6 e
Honduras	1 e	4 e	4 e	4 e	4 e	4 e	4 e	4 e	4 e	4 e
Martinique	1	1 o	1 o	1	1	1	1 e	1 e	1 e	1 e
Nicaragua		0 e	0 e	0	0	0	0	0	0	0
Panama			8 o	8 e	8 o	8 e	8 o	11 o	11 o	11 e
Puerto Rico	o	2 o	2 o	2 o	2 o	5 e	5 o	5 o	5 o	5 e
Eurasia	266	311	390	452	561	754	1 006	1 145	1 200	1 196
Azerbaijan	1	1	1	1 o	1 e	1	1	1	1 u	1 e
Russian Fed	13 e	13 e	13 e	13 e	13 e	13 e	19 e	19 e	19 e	19 e
Türkiye	252 e	297 e	377 e	438 e	548 e	741 e	987 o	1 126 o	1 181 o	1 177 e

Biogas Biogaz Biogás

CAP (MW)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Europe	11 282	11 761	12 184	12 905	13 307	13 816	13 420	13 531	13 628	13 799
Austria	191 e	202 e	180 e	175 o	164 e	165 e	166 e	166 o	178 o	178 e
Belarus	22	27	28	33 o	38 e	37	37 e	39	40 u	40
Belgium	179 o	188 o	183 o	190 o	197 o	199 o	204 o	205 o	216 o	216 e
Bosnia Herzg		1 u	1 e	1 o	1	1	1	1 o	1 o	1 e
Bulgaria	20 o	38 o	29 o	36 e	33 e	33 e	33 o	37 o	37 e	37 e
Croatia	28 e	37 e	45 e	51 e	52 e	55 e	59 e	59 e	54 o	54 e
Cyprus	10 o	10 o	10 e	13 o	13 o	13 o	13 e	14 o	14 e	14 e
Czechia	368 o	369 o	372 o	369 o	369 o	366 o	370 o	378 o	376 o	376 e
Denmark	104 e	107 e	108 e	108 e	121 e	131 e	129 e	125 o	124 e	124 e
Estonia	11 e	11 e	11 e	9 e	8 o	11 o	11 o	11 o	11 o	11 o
Faroe Islands						0 o	2 e	2 e	2 e	2 e
Finland	102 e	114 o	116 o	120 o	103 o	85 o	94 o	76 o	76 o	76 e
France	398 o	426 o	464 o	490 o	526 o	553 o	572 o	560 o	571 e	571 e
Germany	5 643 o	5 850 o	6 147 o	6 784 o	7 081 o	7 494 o	6 963 o	7 019 o	7 074 o	7 195 e
Greece	49 u	56 u	62 u	70 u	75 o	83 e	92 e	111 o	121 o	125 e
Ireland	39 u	38 u	39 u	37 u	40 u	39 u	40 u	40 u	39 e	39 e
Italy	1 336 e	1 352 e	1 372 e	1 375 e	1 382 e	1 379 e	1 382 e	1 387 o	1 391 o	1 364 e
Latvia	60 e	62 e	60 o	61 o	61 e	60 e	57 o	53 o	44 e	44 e
Lithuania	21 o	25 e	25 e	35 o	35 o	36 e	37 e	37	37 o	37 o
Luxembourg	12 o	12 o	12 e	12 e	12 e	12 o	12 o	11 o	11 o	11 o
Malta	3 o	5 o	5 o	5 e	5 e	5 e	6 o	4 o	4 o	4 e
Moldova Rep	3	3	6	6	6	7	7 o	15 o	15 o	7 o
Netherlands	244 e	224 o	224 o	207 o	201 e	192 o	180 o	179 o	184 o	184 e
North Macedonia	4 o	5 o	7 o	7 o	8 o	8 o	8 o	10 o	10 o	10 e
Norway	17 e	10 e	10 e	10 e	7 e	11 e	7 e	7 e	7 e	7 e
Poland	216 o	225 o	229 o	225 o	233 o	261 o	251 o	278 o	276 e	276 o
Portugal	66 o	68 o	70 o	71 o	72 o	71 o	73 e	73 o	75 e	75 o
Romania	14 o	16 o	22 o	22 o	20 o	30 o	32	23 o	21 o	21 e
Serbia	5 o	10 o	13 o	17 o	26 o	29 o	34	36 o	37 o	37 e
Slovakia	91 e	93 e	91 e	89 e	82 e	82 e	81 e	77 e	84 e	84 e
Slovenia	32 e	29 e	27 e	27 e	25 e	30 e	30 e	30 e	30 e	30 e
Spain	245 u	248 u	251 u	258 u	267 u	269 u	271 u	272 u	272 e	272 o
Sweden	2 e	2 e	2 e	2 o	2 e	2 e	2 e	2 o	2 e	2 e
Switzerland	29	29 o	30	30	30	31	31	31 e	31 e	31 e
UK	1 628 o	1 774 o	1 819 o	1 837 o	1 844 o	1 848 o	1 927 o	1 957 o	1 959 o	1 963 o
Ukraine	18 o	21 o	34 o	46 o	93	103	123 e	123 e	123 e	200 e
European Union (27)	9 555	9 882	10 239	10 923	11 259	11 747	11 249	11 313	11 406	11 506
Middle East	62	69	70	68	68	69	69	81	82	90
Iran IR	11	11	11	11	11	11	11 e	14 e	14 e	22 e
Israel	25 e	25 e	25 e	25 e	25 e	26 e	26 e	26 e	26 e	26 e
Jordan	13 u	13 u	13 e	13 e	13 e	13 e	13 e	13 e	13 e	13 e
Lebanon	2 u	9 e	9 e	7 e	7 e	7 e	7 e	7 e	7 e	7 e
Palestine			0	0 e	0 e	0 e	0 e	0 e	0 e	0 e
Qatar	4 e	4 e	4 e	4 e	4 e	4 e	4 e	4 e	4 e	4 e
Syrian AR	7 e	7 e	7 e	7 e	7 e	7 e	7 e	7 e	7 e	7 e
United Arab Em	1 o	1 o	1 o	1 e	1 u	1 u	1 e	9 e	11	11 e
N America	2 685	2 694	2 752	2 708	2 633	2 525	2 391	2 314	2 294	2 274
Canada	272 e	272 e	277 e	277 e	277 e	283 e	283 e	283 e	283 e	283 e
Mexico	40 o	47 o	57 o	55 o	55 o	57 o	64 o	66 o	70 e	73 e
USA	2 373 o	2 375 o	2 419 o	2 376 o	2 301 o	2 184 o	2 043 o	1 964 o	1 941 o	1 917 e
Oceania	282	241	240	240	240	247	247	247	250	219
Australia	228	190 o	190 o	190 u	190 u	197 u	197 u	197 u	200 e	169 e
New Zealand	50	47	46 o	46 o	46 o	46 e	46 e	46 e	46 e	46 e
Samoa					0 e	0 e	0 e	0 e		
S America	301	367	400	424	521	593	636	674	702	714
Argentina	19 o	19 o	24 o	25 o	46 o	57 e	68 e	72 o	80 o	84 e
Brazil	221 o	275 o	292 o	307 o	378 o	435 o	465 o	499 o	519 o	526 o
Chile	49 e	53 e	59 o	60 o	63 o	63 o	63 o	63 o	63 o	63 e
Colombia		6 o	6 o	6 o	6 o	11 o	11 o	11 o	11 o	11 o
Ecuador		2 o	7 o	7 o	7 o	7 o	8 o	8	8	8 e
Fr Guiana										1 o
Paraguay	0 e	0 e	0 e	0 e	2 o	2 e	2 e	2 e	2 e	2 e
Peru	10 o	10 o	10 o	10 o	10	10 o	10 o	10 o	10 e	10 e
Uruguay	2	2	2	9 e	9 o	9 o	9 e	9 o	9 o	9 e

Geothermal energy

Énergie géothermique

Energía geotérmica

CAP (MW)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
World	11 843	12 169	12 754	13 157	13 824	14 165	14 439	14 664	15 047	15 427
Africa	626	660	680	691	691	870	870	957	992	947
Ethiopia	7	7	7	7 e	7 o	7	7	7 o	7	7 e
Kenya	619 o	653 o	673 o	684 o	684 o	863 o	863 o	950 o	985 o	940 o
Asia	3 896	4 001	4 221	4 375	4 566	4 572	4 732	4 760	5 011	5 134
China	26	26	26	26	26 e	26 e	26 e	26 e	26 e	26 e
Chinese Taipei				0 o	0 o	0 o	5 o	5 o	7 o	7 o
Indonesia	1 438 o	1 533 o	1 808 o	1 948 o	2 131 o	2 131 o	2 286 o	2 360 o	2 598 o	2 688 o
Japan	516	526	471	473	481	487	487	437 o	428 o	461 o
Philippines	1 916 o	1 916 o	1 916 o	1 928 o	1 928 o	1 928 o	1 928 o	1 932 o	1 952 o	1 952 o
Thailand	0	0	0	0 e	0 o	0 o	0 e	0 e	0 e	0 o
C America + Carib	640	630	665	665	721	722	719	735	740	740
Costa Rica	217 o	207	207	207 o	262 o	262 o	259 o	263 o	263	263 o
El Salvador	204 o	204 o	204 o	204 o	204 o	204 o	204 o	204 o	209 o	209 o
Guadeloupe	15	15 o	15 u	15 o	15 o	15 o	15 o	15 o	15 e	15 e
Guatemala	49	49	49	49 o	52 o	49 o	49 o	49 o	49 o	49 e
Honduras			35 o	35 o	35 o	39 o	39 o	39 o	39 o	39
Nicaragua	155	155	155	155 o	153 o	153 o	153 e	165 o	165 e	165 e
Eurasia	698	895	1 138	1 357	1 596	1 695	1 758	1 773	1 773	1 816
Russian Fed	74 e	74 e	74	74	81	81 e	81 e	81 e	81 e	81 e
Türkiye	624	821	1 064 o	1 283	1 515	1 613 o	1 676	1 691	1 691 o	1 734 o
Europe	1 503	1 507	1 558	1 617	1 622	1 627	1 633	1 640	1 670	1 662
Austria	1 o	1 o	1 o	1 o	1 e	1 o	0 o	0 o	0 o	0 o
Croatia				10 o	10 o	10 o	10 o	10	10 o	10 o
France	15 o	16 o	16 o	16 o	16 o	16 o	16 o	16	16 e	16 e
Germany	29 o	33 o	32 o	35 o	40 o	40 e	46 o	52 o	52 o	44 o
Hungary			3 o	3 o	3 o	3 o	3 o	3	3 o	3 o
Iceland	665	665	710	756	756	756	756	758	788	788 e
Italy	768 o	767 o	767 o	767 e	767 o	772 o	772 o	772	772	772 o
Portugal	25 o	25 o	29 o	29 o	29 o	29 o	29 o	29 o	29 o	29 o
Romania	0 o	0 o	0 o	0 o	0 o	0 o	0 o	o	o	o
European Union (27)	852	857	863	876	881	886	891	897	897	889
N America	3 440	3 440	3 432	3 393	3 529	3 545	3 595	3 647	3 678	3 707
Canada									6 e	6 e
Mexico	898 o	924 o	949 o	949 o	974 o	974 o	999 o	999 o	999 e	999 e
USA	2 542 o	2 517 o	2 483 o	2 444 o	2 555 o	2 572 o	2 597 o	2 649 o	2 674 o	2 703 o
Oceania	1 040	1 035	1 035	1 059	1 059	1 093	1 093	1 100	1 100	1 327
Australia	0	0	0 e	0	0	0	0	0 e	0 e	0 e
New Zealand	990	985	985	1 009	1 009	1 043	1 043	1 050	1 050 e	1 275 u
Papua N Guin	50 e	50 e	50 e	50 e	50 e	50 e	50 e	50 e	50 e	51 e
S America			24		40	40	40	51	83	95
Chile			24 o	o	40 o	40 o	40 o	51 o	83 o	95 o

Off-grid capacity

Capacité hors réseau

Capacidad aislada

Total off-grid renewable energy

Total énergies renouvelables hors réseau

Total energías renovables aislada

CAP (MW)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
World	6 913.801	7 337.043	7 261.263	9 006.673	9 080.936	9 669.777	10 424.580	11 877.885	12 543.418	14 287.511
África	362.563	443.743	591.652	725.977	808.509	924.454	1 079.865	1 212.280	1 311.859	1 349.357
Algeria	29.740	29.740	29.740	29.540	29.540	29.540	29.540	48.840	57.850	57.850
Angola	23.179	23.187	35.703	35.716	36.645	36.653	36.720	36.739	36.739	36.739
Benin	0.236	0.795	1.036	1.185	2.406	3.447	4.616	6.982	8.858	8.858
Botswana	0.853	1.926	2.061	2.366	2.365	2.364	2.397	2.385	2.396	2.396
Burkina Faso	2.900	3.315	3.602	19.045	20.189	20.679	21.464	22.059	22.192	22.192
Burundi	5.923	6.720	7.068	7.080	7.120	7.260	6.718	6.563	7.228	7.228
Cabo Verde	0.268	0.268	0.426	0.998	1.139	1.305	1.427	1.623	1.796	1.796
Cameroon	0.230	0.249	11.676	11.937	13.213	14.076	26.752	26.828	27.168	27.168
Cent Afr Rep	0.299	0.409	0.474	0.499	0.496	0.539	0.537	0.534	0.623	0.623
Chad	0.172	1.280	1.290	1.662	1.657	1.706	2.192	2.238	2.262	2.340
Comoros		0.805	1.146	1.146	1.165	1.152	0.362	0.034	0.070	0.070
Congo DR	1.515	4.774	18.630	32.093	43.238	46.748	49.733	52.530	54.988	54.988
Congo Rep	0.020	0.040	0.057	0.064	0.062	0.522	0.565	0.640	0.743	0.743
Cote d'Ivoire	0.284	0.450	1.007	2.097	4.206	6.402	7.759	9.009	10.076	10.076
Djibouti	0.300	0.362	0.362	0.362	0.362	0.362	20.362	20.362	20.362	20.362
Egypt	21.000	35.000	35.000	49.200	35.200	37.000	35.500	71.540	71.280	71.280
Eq Guinea		0.160	0.354	0.354	0.336	0.325	0.189	0.006	0.006	0.006
Eritrea	8.684	9.839	24.179	26.689	26.744	26.731	25.950	25.610	25.610	25.610
Eswatini	1.800	1.801	1.804	1.804	1.816	1.851	1.851	1.838	1.849	1.849
Ethiopia	11.169	15.325	13.779	13.631	13.631	21.469	22.469	22.469	22.469	22.839
Gabon	1.838	1.846	1.861	1.866	1.878	1.870	2.270	2.290	2.320	2.320
Gambia	0.338	0.799	1.110	1.149	1.152	1.142	1.129	1.045	1.053	1.053
Ghana	17.322	18.891	20.311	20.777	21.594	22.214	22.711	23.140	22.958	22.958
Guinea	2.293	2.447	2.646	15.120	16.234	16.850	17.181	18.279	19.016	19.016
Guinea Bissau	0.185	0.702	0.947	1.828	1.824	1.763	2.053	1.805	1.980	1.980
Kenya	38.240	43.679	55.909	64.247	80.388	99.102	121.676	133.888	144.979	145.029
Lesotho	0.338	0.339	0.339	0.274	0.499	0.505	0.470	0.640	0.695	0.695
Liberia	5.063	5.352	5.796	6.178	6.618	7.505	7.831	8.454	8.690	8.690
Libya	4.900	4.900	5.110	5.110	5.110	5.111	6.333	6.333	6.333	6.333
Madagascar	6.070	6.935	7.588	7.866	9.164	10.251	10.120	10.871	14.694	14.694
Malawi	2.131	3.744	4.355	4.787	5.209	7.172	7.908	8.934	9.921	9.921
Mali	10.703	11.234	48.074	48.568	49.603	49.870	80.871	81.386	81.434	83.434
Mauritania	7.566	24.166	24.166	25.466	25.609	25.609	25.609	25.609	59.609	93.609
Mauritius	0.834	1.615	3.987	5.210	6.586	5.919	5.319	3.303	2.375	2.375
Morocco	23.800	25.870	27.895	27.895	27.903	28.000	28.000	28.000	28.000	28.000
Mozambique	2.655	2.655	2.678	2.678	2.728	3.721	3.721	3.721	3.721	4.721
Namibia	1.359	1.368	1.409	13.602	13.893	14.382	14.400	14.414	7.474	7.474
Niger	6.472	6.631	6.847	6.973	7.100	7.691	7.555	7.954	10.992	10.992
Nigeria	18.507	22.899	28.285	32.721	44.808	60.620	76.497	102.006	133.186	133.186
Reunion	0.001	0.001	0.001	0.001	1.341	1.501	1.501	1.501	1.501	1.501
Rwanda	2.855	4.106	5.536	7.235	10.792	12.444	13.823	15.234	16.327	16.327
Sao Tome Prn		0.154	0.348	0.348	0.349	0.339	0.203	0.013	0.013	0.013
Senegal	0.501	0.861	1.664	3.606	4.750	5.365	6.352	6.844	6.731	6.731
Seychelles	0.068	0.873	1.214	2.068	2.053	2.040	4.873	4.545	4.545	4.545
Sierra Leone	0.448	0.848	6.291	6.271	9.306	11.416	19.536	19.865	20.185	20.185
Somalia	2.963	3.905	5.132	5.818	5.989	14.459	22.459	45.959	49.459	49.459
South Africa	9.864	10.139	12.921	12.782	13.210	12.975	12.871	12.800	13.383	13.383
South Sudan	0.107	0.969	1.411	1.925	2.124	2.201	1.987	2.469	2.469	2.469
Sudan	19.911	26.219	35.800	59.478	80.199	116.840	135.570	135.570	135.570	135.570
Tanzania	53.971	56.358	60.831	65.101	64.056	66.988	69.874	70.957	70.628	70.628
Togo	0.062	0.082	0.572	4.392	7.278	10.062	13.480	15.420	16.169	16.169
Tunisia	1.710	2.060	2.076	2.076	7.076	7.076	7.076	7.076	7.076	7.076
Uganda	5.241	7.725	10.773	14.164	17.274	16.758	17.181	18.036	17.755	17.755
Zambia	2.597	3.506	4.249	6.341	9.035	9.930	10.440	11.651	12.388	12.388
Zimbabwe	3.078	3.420	4.126	4.588	4.247	4.632	3.882	3.439	3.665	3.665

Total off-grid renewable energy

Total énergies renouvelables hors réseau

Total energías renovables aislada

CAP (MW)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Asia	5 667.257	5 959.009	5 683.258	7 095.756	7 051.245	7 500.150	8 036.355	9 302.540	9 828.261	11 531.073
Afghanistan	50.206	55.324	59.214	58.989	58.504	57.926	58.214	60.014	60.014	60.014
Bangladesh	198.156	158.086	201.717	197.868	208.042	213.676	209.845	173.748	159.038	144.959
Bhutan	8.198	8.198	8.198	8.435	8.435	8.435	8.535	8.535	8.663	8.663
Brunei Darism	0.012	0.012	0.013	0.021	0.023	0.024	0.044	0.044	0.050	0.050
Cambodia	28.225	28.932	29.090	28.832	30.489	30.542	31.076	31.643	30.370	30.703
China	655.530	710.490	747.190	786.950	826.710	866.470	906.230	945.990	985.750	1 025.510
India	1 359.070	1 569.267	1 810.598	2 111.273	2 128.467	2 559.518	2 681.925	3 019.478	3 051.825	4 605.365
Indonesia	1 682.685	1 690.221	1 727.364	2 673.496	2 684.912	2 719.868	3 112.758	3 972.647	4 427.847	4 523.222
Lao PDR	2.167	2.322	2.322	2.612	2.612	2.629	2.643	2.643	2.643	2.643
Malaysia	1 240.848	1 246.170	534.960	540.004	540.015	540.199	540.236	540.284	540.503	540.503
Maldives	6.206	8.895	12.198	17.885	30.407	40.407	41.407	53.407	56.407	69.907
Mongolia	17.160	17.160	17.160	17.160	17.160	17.159	17.153	17.178	17.178	17.178
Myanmar	76.114	88.649	102.819	111.270	114.260	110.274	106.225	153.878	153.878	158.878
Nepal	39.314	41.487	83.299	85.545	85.694	86.713	89.397	93.101	93.101	98.285
Pakistan	19.794	22.612	34.474	35.621	39.785	41.089	41.184	40.851	49.158	49.158
Philippines	35.915	36.003	36.322	47.283	84.389	84.971	85.790	85.382	88.161	92.360
Sri Lanka	12.171	12.206	12.189	12.105	12.105	12.105	12.105	12.105	12.105	12.105
Tajikistan	17.693	17.923	18.398	18.398	18.398	18.848	18.848	18.848	18.848	18.848
Thailand	0.607	0.962	1.124	1.319	1.366	1.555	1.503	1.488	1.414	1.414
Timor Leste	1.696	1.400	1.094	0.875	0.657	0.427	0.422	0.461	0.493	0.493
Uzbekistan	1.000	2.200	3.025	3.325	3.325	3.325	3.325	3.325	3.325	3.325
Viet Nam	214.490	240.490	240.490	336.490	155.490	83.990	67.490	67.490	67.490	67.490
C America + Carib	114.554	110.570	143.519	145.681	162.850	171.030	177.077	183.132	192.711	192.710
Antigua Barb		0.010	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			
Bahamas	1.887	1.883	1.771	1.740	2.040	2.040	6.040	6.040	6.040	6.040
Belize	0.390	0.390	0.427	0.428	1.079	1.142	1.142	1.182	1.229	1.229
BES Islands									0.130	0.130
Br Virgin Is	1.263	1.425	1.426	1.435	1.791	1.996	1.985	2.000	3.000	3.000
Costa Rica	0.376	0.592	0.616	0.401	0.402	0.611	0.488	0.494	0.450	0.450
Cuba	4.233	4.246	4.731	4.744	12.546	12.537	12.524	12.040	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
El Salvador	0.213	0.213	0.195	0.195	4.091	4.095	4.137	4.141	4.141	4.141
Guatemala	0.671	0.823	1.095	1.131	1.292	1.302	1.439	1.205	1.242	1.242
Haiti	3.324	3.620	3.664	3.863	3.698	3.680	3.695	1.510	1.510	1.510
Honduras	19.200	14.174	14.753	14.765	16.175	23.199	23.199	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	0.400	0.010	0.010	0.010	2.410	2.410	2.410	3.505	4.609	4.609
Panama	60.000	60.000	60.000	60.000	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
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
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
Middle East	108.629	129.166	151.666	306.480	310.444	316.595	317.600	328.419	334.984	334.984
Iran IR	0.378	0.378	0.378	0.378	0.378	0.378	0.378	0.378	0.378	0.378
Iraq	37.840	37.840	37.840	37.840	37.840	37.840	37.840	40.340	40.340	40.340
Jordan	0.557	0.588	0.588	0.623	0.670	2.385	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	3.397	3.507	3.527	7.880	7.880	7.880	7.890	7.890	7.890	7.890
Oman		0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011
Palestine					1.833	1.833	1.833	1.833	1.833	1.833
Syrian AR	0.600	0.600	0.600	0.600	0.600	0.600	0.600	2.600	2.600	2.600
United Arab Em	3.208	3.208	3.238	3.407	4.672	5.597	5.597	5.897	6.197	6.197
Yemen	60.249	80.634	103.084	253.341	254.160	257.671	257.716	263.735	270.000	270.000

Total off-grid renewable energy Total énergies renouvelables hors réseau Total energías renovables aislada

CAP (MW)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Oceania	157.458	160.246	162.543	165.752	167.790	168.542	170.547	172.191	173.276	174.684
Amer Samoa		1.504	1.854	1.854	1.504	1.504	1.504	1.504	1.504	1.504
Cook Is	0.047	0.047	0.047	1.869	2.606	2.606	2.606	2.606	2.606	2.606
Fiji	2.928	4.979	5.149	5.562	5.653	5.755	6.044	6.335	7.319	7.319
Fr Polynesia	3.148	3.248	3.548	3.448	3.548	3.548	3.548	3.548	3.548	3.548
Kiribati	1.059	1.032	0.996	0.967	0.918	0.360	0.360	0.360	0.360	0.360
Marshall Is	0.660	0.660	0.720	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	0.008	0.009	0.009	0.167	0.158	0.158	0.158	0.158	0.158
New Caledon	0.500	0.500	0.575	0.607	0.656	0.711	0.786	0.869	0.960	0.960
Palau		0.170	0.170	0.170	0.235	0.538	0.538	0.538	0.538	0.538
Papua N Guin	145.330	143.989	144.042	143.985	144.554	145.054	146.713	146.389	146.389	147.389
Samoa			0.025	0.025	0.183	0.158	0.158			
Solomon Is	1.757	1.938	2.313	2.313	2.200	2.200	2.200	3.910	3.910	3.910
Tonga	0.240	0.277	0.277	0.437	0.437	0.437	0.437	0.437	0.437	0.621
Tuvalu	1.308	1.316	1.321	1.332	1.332	1.332	1.332	1.332	1.332	1.556
Vanuatu	0.336	0.441	1.360	2.300	2.923	3.307	3.289	3.331	3.341	3.341
S America	503.340	534.309	528.625	567.027	580.098	589.006	643.136	679.323	702.327	704.703
Argentina	101.407	100.971	100.838	100.924	101.391	101.215	103.030	104.094	103.822	103.822
Bolivia	92.117	92.127	82.499	123.797	129.303	129.552	128.624	128.906	147.780	147.780
Brazil	3.941	4.102	4.130	4.150	4.177	4.177	4.031	4.031	4.031	4.031
Chile	0.844	0.870	0.998	1.161	1.198	1.965	2.098	2.893	2.912	2.912
Colombia	1.840	1.897	6.937	8.994	14.100	21.290	32.116	47.087	61.022	61.022
Ecuador	12.250	12.320	12.320	13.879	13.879	13.879	13.902	14.902	17.098	17.098
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	1.211	4.211	4.211	4.211	4.211
Guyana	17.874	17.874	17.884	17.781	17.769	17.981	17.803	20.251	24.498	25.418
Paraguay	0.057	0.057	0.057	0.057	0.057	0.170	0.170	1.186	1.186	1.186
Peru	214.442	244.947	238.135	224.136	222.219	222.419	213.866	221.109	204.177	204.177
South Georgia	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.199	0.199
Suriname	1.520	1.520	1.555	2.107	2.120	2.120	3.120	3.620	3.620	5.055
Uruguay	1.361	1.937	7.585	14.354	18.198	18.551	19.689	26.557	27.481	27.502
Venezuela	53.880	53.880	53.880	53.880	53.880	53.880	99.880	99.880	99.880	99.880

Off-grid hydropower

Hydroélectricité hors réseau

Hidroeléctrica aislada

CAP (MW)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
World	602.557	615.572	637.122	1 588.108	1 610.646	1 614.357	1 631.290	1 627.905	1 629.787	1 631.998
Africa	83.794	90.584	126.172	136.563	148.948	150.493	151.406	151.764	153.100	153.100
Angola	22.859 u	22.859 u	35.279 u	35.279 e	35.279 e	35.279 e	35.279 e	35.279 e	35.279 e	35.279 e
Burundi	1.603 e	1.603 e	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	0.096 e	0.096 e	0.096 e	0.096 e	0.516 e	0.516 e	0.516 e	0.516 e	0.516 e	0.516 e
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 e
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
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 e
Ethiopia	1.279 e	1.279 e	1.279 e	1.279 e	1.279 e	1.279 e	1.279 e	1.279 e	1.279 e	1.279 e
Gabon	0.580 e	0.580 e	0.580 e	0.580 e	0.580 e	0.580 e	0.580 e	0.580 e	0.580 e	0.580 e
Ghana						0.045 e	0.045 e	0.045 e	0.045 e	0.045 e
Guinea	2.220 o	2.220 o	2.220 e	2.220 e	2.220 e	2.220 e	2.220 e	2.220 e	2.220 e	2.220 e
Kenya	10.135 e	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
Lesotho	0.180	0.180	0.180	0.180	0.180	0.180	0.180	0.180	0.180 e	0.180 e
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	4.860 e
Madagascar	5.222 e	5.281 e	5.396 e	5.456 e	5.756 e	5.556 e	5.556 e	5.556 e	6.116 e	6.116 e
Malawi	1.420 e	1.720 e	1.720 e	1.848 e	2.056 e	2.056 e	2.469 e	2.469 e	2.469 e	2.469 e
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 e
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 e
Mozambique	1.355 e	1.355 e	1.378 e	1.378 e	1.378 e	1.378 e	1.378 e	1.378 e	1.378 e	1.378 e
Nigeria	0.400 o	0.400 o	0.400 o	0.400 o	0.400 e	0.400 e	0.400 e	0.400 e	0.400 e	0.400 e
Rwanda	1.040 e	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
Sierra Leone	0.250 e	0.250 e	4.890 e	4.890 e	4.890 e	4.890 e	4.890 e	4.890 e	4.890 e	4.890 e
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 e
Tanzania	17.445 e	20.345 e	21.435 e	21.435 e	22.335 e	24.035 e	24.535 e	24.855 e	24.855 e	24.855 e
Uganda			0.380 o	0.544 o	0.504 o	0.504 o	0.504 o	0.504 o	0.624 o	0.624 o
Zambia	1.912 e	1.912 e	1.912 e	1.912 e	2.552 e	2.552 e	2.552 e	2.552 e	2.552 e	2.552 e
Zimbabwe	0.585 e	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
Asia	275.186	284.631	289.869	1 228.379	1 242.368	1 243.634	1 264.937	1 262.411	1 278.408	1 279.919
Afghanistan	31.095 e	34.544 e	37.993 e	37.993 e	37.993 e	37.993 e	38.108 u	38.138 u	38.138 e	38.138 e
Bhutan	8.078 o	8.078 o	8.078 o	8.315 o	8.315 o	8.315 o	8.335 o	8.335 o	8.335 e	8.335 e
India	84.079 e	84.675 e	84.675 e	84.675 e	84.675 o	84.675 e	84.675 e	84.675 e	84.675 e	84.675 e
Indonesia	15.007 e	15.437 e	15.437 e	944.380 o	944.880 o	944.880 o	964.300 o	963.410 o	968.000 o	968.200 e
Lao PDR	2.005 u	2.005 u	2.005 u	2.005 u	2.005 e	2.005 e	2.005 e	2.005 e	2.005 e	2.005 e
Malaysia	0.633 e	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
Mongolia	2.992 e	2.992 e	2.992 e	2.992 o	2.992 e	2.992 e	2.992 e	2.992 e	2.992 e	2.992 e
Myanmar	7.420 e	7.420 e	7.420 e	7.420 e	7.420 e	7.420 e	7.420 e	7.420 e	7.420 e	7.420 e
Nepal	26.504 e	28.414 e	29.659 e	30.915 e	32.368 e	33.184 e	34.932 e	35.436 e	35.436 e	36.748 e
Pakistan	18.789 e	21.544 e	21.580 e	21.660 e	23.666 e	23.666 e	23.666 e	23.666 e	32.893 e	32.893 e
Philippines	12.595 o	12.595 o	12.595 o	20.595 o	30.595 o	30.595 o	30.595 e	28.425 o	30.605 o	30.604 o
Sri Lanka	4.446 e	4.446 e	4.446 e	4.446 e	4.446 e	4.446 e	4.446 e	4.446 e	4.446 e	4.446 e
Tajikistan	17.693 o	17.923 o	18.398 o	18.398 o	18.398 o	18.848 o	18.848 o	18.848 o	18.848 o	18.848 e
Thailand	0.498 e	0.498 e	0.498 e	0.498 e	0.498 e	0.498 e	0.498 e	0.498 e	0.498 e	0.498 e
Timor Leste	0.352 e	0.352 e	0.352 e	0.352 e	0.352 e	0.352 e	0.352 e	0.352 e	0.352 e	0.352 e
Viet Nam	43.000 e	43.000 e	43.000 e	43.000 e	43.000 e	43.000 e	43.000 e	43.000 e	43.000 e	43.000 e
C America + Carib	15.081	14.907	15.040	15.120	15.165	15.185	15.185	13.175	13.175	13.175
Belize	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
Cuba	3.884 e	3.884 e	3.884 e	3.884 e	3.884 e	3.884 e	3.884 e	3.884 e	3.884 e	3.884 e
Dominican Rep	1.196 o	1.317 o	1.448 o	1.528	1.665 o	1.685 o	1.685 e	1.860 e	1.860	1.860 e
El Salvador	0.140 e	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
Guatemala	0.511 e	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
Haiti	2.170 e	2.185 u	2.185 e	2.185 e	2.185 e	2.185 e	2.185 e	2.185 e	2.185 e	2.185 e
Honduras	6.630 o	6.630 o	6.630 o	6.630 o	6.630 o	6.630 o	6.630 o	6.630 o	6.630 o	6.630 e
Nicaragua	0.400									
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 e	1.340 e	1.340 e	1.340 e	1.340 e	1.340 e	1.340 e	1.340 e	1.340 e	1.340 e
Oceania	76.526	75.179	75.179	75.179	75.179	75.179	75.179	75.179	75.179	75.179
Fiji	0.130 u	0.130 u	0.130 u	0.130 u	0.130 e	0.130 e	0.130 e	0.130 e	0.130 e	0.130 e
Papua N Guin	76.140 e	74.640 e	74.640 e	74.640 e	74.640 e	74.640 e	74.640 e	74.640 e	74.640 e	74.640 e
Solomon Is	0.181	0.331	0.331	0.331	0.331	0.331	0.331	0.331	0.331	0.331
Vanuatu	0.075 e	0.078 e	0.078 e	0.078 e	0.078 e	0.078 e	0.078 e	0.078 e	0.078 e	0.078 e

Off-grid hydropower Hydroélectricité hors réseau Hidroeléctrica aislada

CAP (MW)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
S America	150.630	148.931	129.522	131.527	127.646	128.526	123.243	124.036	108.585	109.285
Argentina	4.069	4.098	4.098	4.098	4.098	4.098	4.098	4.098	4.098	4.098 e
Bolivia	1.200	1.200	0.800	0.800 e	0.800 o	0.800 e	0.800 e	0.800 e	1.200 o	1.200 e
Brazil	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020
Chile	0.765 o	0.765 o	0.765 o	0.765 o	0.765 o	1.445 o	1.445 o	2.245 o	2.245 o	2.245 o
Colombia	0.318 e	0.318 e	5.318 o	5.318 o	9.405 e	9.405 e	4.275 o	4.275 o	4.643 o	4.643 e
Ecuador	5.660 o	5.660 o	5.660 e	6.060 o	6.060 o	6.060 o	6.060 o	6.060 o	6.060 o	6.060 e
Fr Guiana	1.050 o	1.050 o	1.050 o	1.050 o	1.050 o	1.050 e	1.050 e	1.050 e	1.050 e	1.050 e
Guyana	2.330 o	2.330 e	2.330 e	2.330 e	2.350 o	2.350 e	2.350 e	2.350 e	2.350 e	3.050 e
Peru	134.228 o	132.500 o	108.456 o	110.061 o	102.073 o	102.273 o	102.120 o	102.113 o	85.881 o	85.881 e
South Georgia	0.180	0.180	0.180	0.180	0.180	0.180 e	0.180 e	0.180 e	0.193 o	0.193 e
Suriname			0.035 u	0.035 e	0.035 e	0.035 e	0.035 e	0.035 e	0.035 e	0.035 e
Venezuela	0.810 e	0.810 e	0.810 e	0.810 e	0.810 e	0.810 e	0.810 e	0.810 e	0.810 e	0.810 e

Off-grid solar photovoltaic

Solaire photovoltaïque hors réseau

Solar fotovoltaica aislada

CAP (MW)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
World	1 556.862	1 795.771	2 259.632	2 813.240	3 017.372	3 516.418	3 807.631	4 409.056	4 714.687	6 289.219
Africa	199.022	270.711	342.597	466.041	536.188	650.588	785.086	917.143	1 015.386	1 050.834
Algeria	19.540 e	19.540 e	19.540 e	19.540 e	19.540 e	19.540 e	19.540 e	38.840 e	47.850 u	47.850 e
Angola	0.320 e	0.328 e	0.424 e	0.437 e	1.366 e	1.374 e	1.441 e	1.460 e	1.460 e	1.460 e
Benin	0.236 e	0.795 e	1.036 e	1.185 e	2.406 e	3.447 e	4.616 e	6.982 e	8.858 e	8.858 e
Botswana	0.853 e	1.926 e	2.061 e	2.366 e	2.365 e	2.364 e	2.397 e	2.385 e	2.396 e	2.396 e
Burkina Faso	2.750 e	3.165 e	3.452 e	18.895 e	20.039 e	20.529 e	21.314 e	21.909 e	22.042 e	22.042 e
Burundi	0.320 e	1.117 e	1.465 e	1.477 e	1.517 e	1.657 e	1.115 e	0.960 e	1.625 e	1.625 e
Cabo Verde	0.268 o	0.268 o	0.426 o	0.998 o	1.139 o	1.305 o	1.427 o	1.623 o	1.796 o	1.796 u
Cameroon	0.134 e	0.153 e	11.580 e	11.841 e	12.697 e	13.560 e	26.236 e	26.312 e	26.652 e	26.652 e
Cent Afr Rep	0.099 e	0.209 e	0.274 e	0.299 e	0.296 e	0.339 e	0.337 e	0.334 e	0.423 e	0.423 e
Chad	0.172 e	0.180 e	0.190 e	0.562 e	0.557 e	0.606 e	1.092 e	1.138 e	1.162 e	1.240 u
Comoros		0.805 e	1.146 e	1.146 e	1.152 e	1.152 e	0.362 e	0.034 e	0.070 e	0.070 e
Congo DR	1.355 e	4.614 e	5.670 e	8.333 e	9.578 e	13.088 e	16.073 e	18.870 e	21.328 e	21.328 e
Congo Rep	0.020 e	0.040 e	0.057 e	0.064 e	0.062 e	0.522 e	0.565 e	0.640 e	0.743 e	0.743 e
Cote d'Ivoire	0.284 e	0.450 e	1.007 e	2.097 e	4.206 e	6.402 e	7.759 e	9.009 e	10.076 e	10.076 e
Djibouti	0.300 e	0.362 u	0.362 u	0.362 u	0.362 u	0.362 e	0.362 e	0.362 e	0.362 e	0.362 e
Egypt	16.000 o	30.000 o	30.000 o	44.200 o	30.200 o	32.000 o	30.500 o	66.540 e	66.280 e	66.280 e
Eq Guinea		0.160 e	0.354 e	0.354 e	0.336 e	0.325 e	0.189 e	0.006 e	0.006 e	0.006 e
Eritrea	7.859 e	9.014 e	23.354 e	25.864 e	25.919 e	25.906 e	25.125 e	24.785 e	24.785 e	24.785 e
Eswatini		0.001 e	0.004 e	0.004 e	0.016 e	0.051 e	0.051 e	0.038 e	0.049 e	0.049 e
Ethiopia	9.890	14.040	12.494	12.346	12.346	20.184	21.184	21.184 e	21.184 e	21.554 u
Gabon	0.058 e	0.066 e	0.081 e	0.086 e	0.098 e	0.090 e	0.490 e	0.510 e	0.540 e	0.540 e
Gambia	0.338 e	0.799 e	1.110 e	1.149 e	1.152 e	1.142 e	1.129 e	1.045 e	1.053 e	1.053 e
Ghana	9.028 e	10.597 e	12.017 e	12.483 e	13.300 e	13.875 e	14.372 e	14.801 e	14.619 e	14.619 e
Guinea	0.073 e	0.227 e	0.426 e	12.900 e	14.014 e	14.630 e	14.961 e	16.059 e	16.796 e	16.796 e
Guinea Bissau	0.185 e	0.702 e	0.947 e	1.828 e	1.824 e	1.763 e	2.053 e	1.805 e	1.980 e	1.980 e
Kenya	27.501 e	29.420 e	35.420 e	43.850 e	59.965 e	78.679 e	101.253 e	113.427 e	123.862 e	123.862 e
Lesotho	0.158 e	0.159 e	0.159 e	0.094 e	0.319 e	0.325 e	0.290 e	0.460 e	0.515 e	0.515 e
Liberia	0.133 e	0.362 e	0.731 e	1.113 e	1.553 e	2.440 e	2.766 e	3.389 e	3.625 e	3.625 e
Libya	4.900 u	4.900 u	5.110 u	5.110 e	5.110 e	5.111 e	6.333 u	6.333 e	6.333 e	6.333 e
Madagascar	0.437 e	1.243 e	1.781 e	1.999 e	2.997 e	4.284 e	4.153 e	4.904 e	8.167 e	8.167 e
Malawi	0.711 e	2.024 e	2.635 e	2.939 e	3.153 e	5.116 e	5.439 e	6.465 e	7.452 e	7.452 e
Mali	5.334 e	5.865 e	7.705 e	8.199 e	9.234 e	9.501 e	40.502 e	41.017 e	41.065 e	41.065 e
Mauritania	3.166 o	19.766 o	19.766 o	21.066 u	21.209 u	21.209 e	21.209 e	21.209 e	55.209 u	89.209 e
Mauritius	0.134 e	0.915 e	3.287 e	4.510 e	5.886 e	5.219 e	4.619 e	2.603 e	1.675 e	1.675 e
Morocco	18.800	20.870	22.895 o	22.895 o	22.903 o	23.000	23.000 e	23.000 e	23.000 e	23.000 e
Mozambique	1.300	1.300	1.300	1.300	1.350	2.343	2.343	2.343	2.343	3.343 e
Namibia	1.359 e	1.368 e	1.409 e	13.602 e	13.893 e	14.382 e	14.400 e	14.414 e	7.474 e	7.474 e
Niger	6.472 e	6.631 e	6.847 e	6.973 e	7.100 e	7.691 e	7.555 e	7.954 e	10.992 e	10.992 e
Nigeria	10.600 e	13.482 e	18.868 e	23.304 e	35.391 e	51.203 e	67.080 e	92.589 e	123.769 e	123.769 e
Reunion	0.001 e	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
Rwanda	1.815 e	3.055 e	4.485 e	6.163 e	9.669 e	11.321 e	12.700 e	14.111 e	15.204 e	15.204 e
Sao Tome Prn		0.154 e	0.348 e	0.348 e	0.349 e	0.339 e	0.203 e	0.013 e	0.013 e	0.013 e
Senegal	0.501 e	0.861 e	1.664 e	3.606 e	4.750 e	5.365 e	6.352 e	6.844 e	6.731 e	6.731 e
Seychelles	0.068 o	0.873 e	1.214 e	2.068 e	2.053 e	2.040 e	4.873 e	4.545 e	4.545 e	4.545 e
Sierra Leone	0.198 e	0.598 e	1.401 e	1.381 e	4.416 e	6.526 e	14.646 e	14.975 e	15.295 e	15.295 e
Somalia	0.163 e	1.105 e	1.582 e	2.268 e	2.439 e	10.909 e	18.909 e	42.409 e	45.909 e	45.909 e
South Africa	2.214 e	2.489 e	5.271 e	5.132 e	5.560 e	5.325 e	5.221 e	5.150 e	5.733 e	5.733 e
South Sudan	0.107 e	0.969 e	1.411 e	1.925 e	2.124 e	2.201 e	1.987 e	2.469 e	2.469 e	2.469 e
Sudan	19.911 u	26.219 u	35.800 u	59.478 u	80.199 u	116.840 u	135.570 u	135.570 e	135.570 e	135.570 e
Tanzania	12.766 e	12.228 e	13.111 e	17.381 e	15.436 e	16.668 e	19.054 e	19.817 e	19.488 e	19.488 e
Togo	0.062 e	0.082 e	0.572 e	4.392 e	7.278 e	10.062 e	13.480 e	15.420 e	16.169 e	16.169 e
Tunisia	1.710 e	2.060 e	2.076 e	2.076 e	7.076 u	7.076 e	7.076 e	7.076 e	7.076 e	7.076 e
Uganda	5.241 e	7.725 e	10.393 e	13.620 e	16.770 e	16.254 e	16.677 e	17.532 e	17.131 e	17.131 e
Zambia	0.685 e	1.594 e	2.337 e	4.429 e	6.483 e	7.378 e	7.888 e	9.099 e	9.836 e	9.836 e
Zimbabwe	2.493 e	2.835 e	3.541 e	4.003 e	3.682 e	4.067 e	3.317 e	2.874 e	3.100 e	3.100 e

Off-grid solar photovoltaic

Solaire photovoltaïque hors réseau

Solar fotovoltaica aislada

CAP (MW)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Asia	1 170.952	1 310.108	1 667.600	1 947.087	2 048.905	2 410.490	2 543.990	2 967.026	3 136.320	4 673.321
Afghanistan	19.01 e	20.680 e	21.121 e	20.896 e	20.411 e	19.833 e	20.006 e	21.776 e	21.776 e	21.776 e
Bangladesh	191.506 e	151.036 e	194.667 e	190.818 e	200.992 e	206.326 e	202.495 e	166.398 e	151.688 e	137.609 e
Bhutan	0.120 e	0.120 e	0.120 e	0.120 e	0.120 e	0.120 e	0.200 e	0.200 e	0.328 e	0.328 e
Brunei Darssm	0.012 e	0.012 e	0.013 e	0.021 e	0.023 e	0.024 e	0.044 e	0.044 e	0.050 e	0.050 e
Cambodia	1.275 e	1.982 e	2.140 e	1.882 e	3.539 e	3.592 e	4.126 e	4.693 e	5.420 e	5.753 e
China	357.800	367.800	376.800	385.800	394.800	403.800	412.800	421.800	430.800	439.800
India	489.620 e	640.976 e	875.977 e	1 130.251 e	1 177.163 e	1 510.674 e	1 633.081 e	1 966.434 e	1 946.781 e	3 406.781 e
Indonesia	41.678 e	41.784 e	42.927 e	43.856 e	52.772 e	58.768 e	65.648 e	115.827 e	306.797 e	361.972 e
Lao PDR	0.162 e	0.317 e	0.317 e	0.317 e	0.317 e	0.334 e	0.348 e	0.348 e	0.348 e	0.348 e
Malaysia	2.415 e	2.462 e	2.579 e	7.629 e	7.610 e	7.794 e	7.831 e	7.879 e	8.098 e	8.098 e
Maldives	4.799 o	7.488 o	10.791 o	16.478 o	29.000 o	39.000 o	40.000 o	52.000 o	55.000 o	68.500 o
Mongolia	13.162 e	13.162 e	13.162 e	13.162 e	13.162 e	13.167 e	13.167 e	13.197 e	13.197 e	13.197 e
Myanmar	20.819 o	32.008 o	43.781 o	47.542 o	48.482 o	44.496 o	40.447 e	88.100 e	88.100 e	93.100 u
Nepal	12.741 e	13.004 e	53.137 e	54.027 e	52.693 e	52.896 e	53.274 e	56.354 e	56.354 e	60.226 e
Pakistan	0.444 e	0.507 e	12.315 e	13.382 e	15.540 e	16.844 e	16.939 e	16.606 e	15.686 e	15.686 e
Philippines	0.740 e	0.828 e	1.147 e	4.108 e	14.654 e	15.236 e	16.055 e	17.817 e	18.416 e	22.616 e
Sri Lanka	7.725 e	7.760 e	7.743 e	7.659 e	7.659 e	7.659 e	7.659 e	7.659 e	7.659 e	7.659 e
Thailand	0.109 e	0.464 e	0.626 e	0.821 e	0.868 e	1.057 e	1.005 e	0.990 e	0.916 e	0.916 e
Timor Leste	1.324 u	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
Uzbekistan	1.000	2.200	3.025	3.325	3.325	3.325	3.325	3.325	3.325	3.325
Viet Nam	4.490 e	4.490 e	4.490 e	4.490 e	5.490 e	5.490 e	5.490 e	5.490 e	5.490 e	5.490 e
C America + Carib	11.368	7.092	8.908	10.966	27.339	35.499	41.546	47.271	56.850	56.849
Antigua Barb		0.010 e	0.414 e	0.414 e	0.414 e	0.414 e	0.414 e	0.414 e	0.414 e	0.414 e
Aruba	0.011 e	0.011 e	0.011 e	0.011 e	0.011 e	0.011 e	0.011 e	0.011 e	0.011 e	0.011 e
Bahamas	1.587 e	1.583 e	1.471 e	1.440 e	1.740 e	1.740 e	5.740 e	5.740 e	5.740 e	5.740 e
Belize	0.220 e	0.220 e	0.257 e	0.258 e	0.909 e	0.972 e	0.972 e	1.012 e	1.059 e	1.059 e
BES Islands									0.130 u	0.130 e
Br Virgin Is	0.763 u	0.925 o	0.926 o	0.935 o	0.990 o	1.195 o	1.184 o	1.199 o	2.199 o	2.199 e
Costa Rica	0.376 e	0.592 e	0.616 e	0.401 e	0.402 e	0.611 e	0.488 e	0.494 e	0.450 e	0.450 e
Cuba	0.349 e	0.362 e	0.847 e	0.860 e	8.212 e	8.203 e	8.190 e	7.706 e	7.693 e	7.693 e
Curacao	0.004 o	0.004 o	0.004 o	0.004 o	0.004 o	0.004 o	0.004 o	0.004 o	0.004 e	0.004 e
Dominican Rep	1.500	1.510	1.550	3.600	3.800	4.500	6.500	11.769	19.087	19.087 e
El Salvador	0.073 e	0.073 e	0.098 e	0.098 e	4.086 e	4.090 e	4.132 e	4.136 e	4.136 e	4.136 e
Guatemala	0.160 e	0.222 e	0.449 e	0.485 e	0.646 e	0.656 e	0.793 e	0.559 e	0.596 e	0.596 e
Haiti	1.154 e	1.435 u	1.479 u	1.654 u	1.489 u	1.471 u	1.486 u	1.486 e	1.486 e	1.486 e
Honduras	5.156 e	0.130 o	0.709 o	0.721 o	2.131 o	9.155 o	9.155 o	9.180 o	9.180 o	9.180 e
Jamaica	0.013 e	0.013 e	0.013 e	0.013 e	0.013 e	0.013 e	0.013 e	0.013 e	0.013 e	0.013 e
Nicaragua					2.400 o	2.400 o	2.400 e	3.495 o	4.599 e	4.599 e
Panama					0.020 u	0.020 e	0.020 o	0.020 e	0.020 o	0.020 e
Puerto Rico			0.062 e	0.070 e	0.070 e	0.042 e	0.042 e	0.042 e	0.042 e	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 e	0.001 e	0.001 e
Trinidad Tobago	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
Middle East	101.289	121.826	144.326	299.140	303.104	309.245	310.245	321.064	327.629	327.629
Iran IR	0.378	0.378	0.378	0.378 e	0.378 e	0.378 e	0.378 e	0.378 e	0.378 e	0.378 e
Iraq	36.500 e	36.500 e	36.500 e	36.500 e	36.500 e	36.500 e	36.500 e	39.000 e	39.000 e	39.000 e
Jordan	0.557 o	0.588 e	0.588 o	0.623 o	0.670 o	2.375 o	3.325 u	3.325 e	3.325 e	3.325 e
Lebanon	0.397 e	0.507 e	0.527 e	4.880 o	4.880 o	4.880 e	4.890 o	4.890 e	4.890 e	4.890 e
Oman		0.011 e	0.011 e	0.011 e	0.011 e	0.011 e	0.011 e	0.011 e	0.011 e	0.011 e
Palestine					1.833 o	1.833 e	1.833 e	1.833 e	1.833 e	1.833 e
Syrian AR								2.000 o	2.000 e	2.000 e
United Arab Em	3.208 e	3.208 e	3.238 u	3.407 o	4.672 o	5.597 u	5.597 e	5.897 u	6.197 e	6.197 e
Yemen	60.249 e	80.634 e	103.084 e	253.341 e	254.160 e	257.671 e	257.711 e	263.730 e	269.995 e	269.995 e
Oceania	11.838	15.973	18.270	21.478	23.516	24.268	26.273	27.917	29.002	29.410
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 e	1.504 e
Cook Is	0.047 e	0.047 e	0.047 e	1.869 u	2.606 u	2.606 e	2.606 e	2.606 e	2.606 e	2.606 e
Fiji	2.774 u	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 e
Fr Polynesia	2.900 o	3.000 o	3.300 o	3.200 o	3.300 o	3.300 o	3.300 e	3.300 e	3.300 e	3.300 e
Kiribati	1.059 e	1.032 e	0.996 e	0.967 e	0.918 e	0.360 e	0.360 e	0.360 e	0.360 e	0.360 e
Marshall Is	0.650 e	0.650 e	0.710 e	0.726 e	0.726 e	0.726 e	0.726 e	0.726 e	0.726 e	0.726 e
Micronesia	0.137 e	0.137 e	0.137 e	0.137 e	0.137 e	0.137 e	0.137 e	0.137 e	0.137 e	0.137 e
Nauru	0.008 e	0.008 e	0.009 e	0.009 e	0.167 e	0.158 e	0.158 e	0.158 e	0.158 e	0.158 e
New Caledon	0.500 o	0.500 o	0.575 o	0.607 o	0.656 o	0.711 o	0.786 o	0.869 o	0.960 e	0.960 e
Palau		0.170 o	0.170 o	0.170 e	0.235 u	0.538 o	0.538 e	0.538 e	0.538 e	0.538 e
Papua N Guin	0.878 u	1.037 e	1.090 e	1.033 e	1.602 e	2.102 e	3.761 e	3.437 e	3.437 e	3.437 e
Samoa			0.025 e	0.025 e	0.183 e	0.158 e	0.158 e			
Solomon Is	1.076 e	1.107 e	1.482 e	1.482 e	1.369 e	1.369 e	1.369 e	3.079 e	3.079 e	3.079
Tonga	0.240 o	0.277 o	0.277 o	0.437 u	0.437 e	0.437 e	0.437 e	0.437 e	0.437 e	0.621 o
Tuvalu	1.308 o	1.316 o	1.321 o	1.332 o	1.332 o	1.332 e	1.332 e	1.332 e	1.332 e	1.556 o
Vanuatu	0.261 e	0.363 o	1.282 o	2.222 o	2.845 o	3.229 o	3.211 o	3.253 o	3.263 e	3.263 e

Off-grid solar photovoltaic Solaire photovoltaïque hors réseau Solar fotovoltaica aislada

CAP (MW)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
S America	62.393	70.061	77.931	68.528	78.320	86.328	100.491	128.635	149.500	151.176
Argentina	6.003 e	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 e
Bolivia	5.617 e	5.627 e	5.699 e	5.497 e	6.003 e	6.252 e	6.194 e	6.476 e	6.660 e	6.660 e
Brazil	3.921 e	4.082 e	4.110 e	4.130 e	4.157 e	4.157 e	4.011 e	4.011 e	4.011 e	4.011 e
Chile	0.079 e	0.105 e	0.233 e	0.396 e	0.433 e	0.520 e	0.653 e	0.648 e	0.667 e	0.667 e
Colombia	1.463	1.520	1.520	3.577	4.636 o	11.826 o	22.262 o	37.233 o	50.800 o	50.800 e
Ecuador	1.940	2.010	2.010	3.169 o	3.169 o	3.169 o	3.192 o	4.192	6.388	6.388 e
Falklands Malv	0.070 o	0.070 o	0.070 o	0.070 o	0.070 e	0.070 e	0.070 e	0.070 e	0.070 e	0.070 e
Fr Guiana	0.161 o	0.161 o	0.161 o	0.161 o	0.161 o	0.161 e	0.161 e	0.161 e	0.161 e	0.161 e
Guyana	0.717 e	0.717 e	0.727 e	0.624 e	0.592 e	0.804 e	0.626 e	3.074 e	7.321 e	7.541 e
Paraguay	0.057 o	0.057 o	0.057 o	0.057 o	0.057 o	0.150	0.150	1.166	1.166 e	1.166 e
Peru	38.914 e	46.147 e	53.379 e	39.675	45.746	45.746 e	45.746 o	45.746 e	45.746 e	45.746 e
Suriname	0.020 u	0.020 u	0.020 u	0.572 u	0.585 u	0.585 u	1.585 u	2.085 u	2.085 u	3.520 u
Uruguay	0.561	1.137 o	1.685 o	2.254 o	3.898 o	4.251 o	5.389 o	12.257 o	13.181 o	13.202 o
Venezuela	2.870 e	2.870 e	2.870 e	2.870 e	2.870 e	2.870 e	2.870 e	2.870 e	2.870 e	2.870 e

Other off-grid renewable energy

Autres énergies renouvelables hors réseau

Otras energías renovables aislada

CAP (MW)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
World	4 754.382	4 925.700	4 364.509	4 605.325	4 452.918	4 539.002	4 985.659	5 840.924	6 198.944	6 366.294
Africa	79.747	82.448	122.883	123.373	123.373	123.373	143.373	143.373	143.373	145.423
Algeria	10.200	10.200	10.200 e	10.000 e	10.000 e	10.000 e	10.000 e	10.000 e	10.000 e	10.000 e
Burkina Faso	0.150 u	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
Burundi	4.000 e	4.000 e	4.000 e	4.000 e	4.000 e	4.000 e	4.000 e	4.000 e	4.000 e	4.000 e
Chad		1.100 u	1.100 e	1.100 e	1.100 e	1.100 o	1.100 e	1.100 e	1.100 e	1.100 e
Congo DR	0.160 e	0.160 e	2.160 e	2.960 e	2.960 e	2.960 e	2.960 e	2.960 e	2.960 e	2.960 e
Djibouti							20.000 u	20.000 e	20.000 e	20.000 e
Egypt	5.000 o	5.000 o	5.000 o	5.000 o	5.000 o	5.000 o	5.000 e	5.000 e	5.000 e	5.000 e
Eritrea	0.825 e	0.825 e	0.825 e	0.825 e	0.825 e	0.825 e	0.825 e	0.825 e	0.825 e	0.825 e
Ethiopia		0.006 u	0.006 e	0.006 e	0.006 e	0.006 e	0.006 e	0.006 e	0.006 e	0.006 e
Gabon	1.200 e	1.200 e	1.200 e	1.200 e	1.200 e	1.200 e	1.200 e	1.200 e	1.200 e	1.200 e
Ghana	8.294 e	8.294 e	8.294 e	8.294 e	8.294 e	8.294 e	8.294 e	8.294 e	8.294 e	8.294 e
Kenya	0.604 e	0.604 e	0.714 e	0.604 e	0.604 e	0.604 e	0.604 e	0.604 e	0.604 e	0.654 e
Liberia	0.070 e	0.130 u	0.205 e	0.205 e	0.205 e	0.205 e	0.205 e	0.205 e	0.205 e	0.205 e
Madagascar	0.411 o	0.411 o	0.411 e	0.411 e	0.411 e	0.411 e	0.411 e	0.411 e	0.411 e	0.411 e
Mali	5.366 e	5.366 e	40.366 e	40.366 e	40.366 e	40.366 e	40.366 e	40.366 e	40.366 e	42.366 e
Mauritania	4.400 o	4.400 o	4.400 o	4.400 e	4.400 e	4.400 e	4.400 e	4.400 e	4.400 e	4.400 e
Morocco	5.000	5.000	5.000	5.000	5.000 e	5.000 e	5.000 e	5.000 e	5.000 e	5.000 e
Nigeria	7.507 u	9.017 e	9.017 e	9.017 e	9.017 e	9.017 e	9.017 e	9.017 e	9.017 e	9.017 e
Somalia	2.800 u	2.800 u	3.550 u	3.550 e	3.550 e	3.550 e	3.550 e	3.550 e	3.550 e	3.550 e
Tanzania	23.760 e	23.785 e	26.285 e	26.285 e	26.285 e	26.285 e	26.285 e	26.285 e	26.285 e	26.285 e
Asia	4 221.119	4 364.270	3 725.789	3 920.290	3 759.972	3 846.026	4 227.428	5 073.103	5 413.533	5 577.833
Afghanistan	0.100 e	0.100 e	0.100 e	0.100 e	0.100 e	0.100 e	0.100 e	0.100 e	0.100 e	0.100 e
Bangladesh	6.650 e	7.050 e	7.050 e	7.050 e	7.050 e	7.350 e	7.350 e	7.350 e	7.350 e	7.350 e
Cambodia	26.950 e	26.950 e	26.950 e	26.950 e	26.950 e	26.950 e	26.950 e	26.950 e	24.950 e	24.950 e
China	297.730	342.690	370.390	401.150	431.910 e	462.670 o	493.430 e	524.190 e	554.950 e	585.710 e
India	785.371 e	843.616 e	849.946 e	896.347 e	866.629 e	964.169 e	964.169 e	968.369 e	1 020.369 e	1 113.909 e
Indonesia	1 626.000 o	1 633.000 e	1 669.000 e	1 685.260 e	1 687.260 e	1 716.220 e	2 082.810 e	2 893.410 e	3 153.050 e	3 193.050 e
Lao PDR				0.290 o	0.290 o	0.290 o	0.290 o	0.290 e	0.290 e	0.290 e
Malaysia	1 237.800 o	1 243.000 o	531.640 o	531.640 e	531.640 e	531.640 e	531.640 e	531.640 e	531.640 e	531.640 e
Maldives	1.407 e	1.407 e	1.407 e	1.407 e	1.407 e	1.407 e	1.407 e	1.407 e	1.407 e	1.407 e
Mongolia	1.006 e	1.006 e	1.006 e	1.006 o	1.006 e	1.000	0.994	0.989 e	0.989 e	0.989 e
Myanmar	47.875 e	49.221 e	51.618 e	56.308 e	58.358 e	58.358 e	58.358 e	58.358 e	58.358 e	58.358 e
Nepal	0.069 u	0.069 u	0.503 e	0.603 u	0.633 u	0.633 e	1.191 e	1.311 e	1.311 e	1.311 e
Pakistan	0.561 e	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
Philippines	22.580 e	22.580 e	22.580 e	22.580 e	39.140 e	39.140 e	39.140 e	39.140 e	39.140 e	39.140 e
Timor Leste	0.020 e	0.020 e	0.020 e	0.020 e	0.020 e	0.020 e	0.020 e	0.020 e	0.050 e	0.050 e
Viet Nam	167.000 e	193.000 e	193.000 e	289.000 e	107.000 e	35.500 e	19.000 e	19.000 e	19.000 e	19.000 e
C America + Carib	88.105	88.571	119.571	119.595	120.346	120.346	120.346	122.686	122.686	122.686
Bahamas	0.300 e	0.300 e	0.300 e	0.300 e	0.300 e	0.300 e	0.300 e	0.300 e	0.300 e	0.300 e
Belize	0.020 u	0.020 u	0.020 u	0.020 u	0.020 u	0.020 u	0.020 e	0.020 u	0.020 e	0.020 e
Br Virgin Is	0.500 o	0.500 o	0.500 o	0.500 o	0.801 o	0.801 o	0.801 o	0.801 o	0.801 u	0.801 e
Cuba					0.450 e	0.450 e	0.450 e	0.450 e	0.450 e	0.450 e
Dominica	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
Dominican Rep	19.770 o	20.050 o	51.050 o	51.050 o	51.050 o	51.050 o	51.050 o	53.390 o	53.390 e	53.390 e
Haiti				0.024 u	0.024 e	0.024 e	0.024 e	0.024 e	0.024 e	0.024 e
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 e
Nicaragua		0.010 e	0.010 e	0.010	0.010	0.010	0.010	0.010	0.010	0.010
Panama	60.000 e	60.000 e	60.000 e	60.000 e	60.000 e	60.000 e	60.000 e	60.000 e	60.000 o	60.000 e
St Lucia		0.176	0.176 e	0.176 e	0.176 e	0.176 e	0.176 e	0.176 e	0.176 e	0.176 e
US Virgin Is	0.100 o	0.100 o	0.100 o	0.100 e	0.100 e	0.100 e	0.100 e	0.100 e	0.100	0.100 e
Middle East	6.000	6.000	6.000	6.000	6.000	6.010	6.015	6.015	6.015	6.015
Jordan						0.010 o	0.010 o	0.010 e	0.010 e	0.010 e
Kuwait	2.400 e	2.400 e	2.400 e	2.400 e	2.400 e	2.400 e	2.400 e	2.400 e	2.400 e	2.400 e
Lebanon	3.000 e	3.000 e	3.000 e	3.000 e	3.000 e	3.000 e	3.000 e	3.000 e	3.000 e	3.000 e
Syrian AR	0.600 e	0.600 e	0.600 e	0.600 e	0.600 e	0.600 e	0.600 e	0.600 e	0.600 e	0.600 e
Yemen							0.005 o	0.005 e	0.005 e	0.005 e
Oceania	69.094	69.094	69.094	69.095	69.095	69.095	69.095	69.095	69.095	70.095
Fiji	0.024 u	0.024 u	0.024 u	0.024 u	0.024 e	0.024 e	0.024 e	0.024 e	0.024 e	0.024 e
Fr Polynesia	0.248 e	0.248 e	0.248 e	0.248 e	0.248 e	0.248 e	0.248 e	0.248 e	0.248 e	0.248 e
Marshall Is	0.010 e	0.010 e	0.010 e	0.011 u	0.011 e	0.011 e	0.011 e	0.011 e	0.011 e	0.011 e
Papua N Guin	68.312 e	68.312 e	68.312 e	68.312 e	68.312 e	68.312 e	68.312 e	68.312 e	68.312 e	69.312 e
Solomon Is	0.500 u	0.500 u	0.500 u	0.500 u	0.500 e	0.500 e	0.500 e	0.500 e	0.500 e	0.500

Other off-grid renewable energy Autres énergies renouvelables hors réseau Otras energías renovables aislada

CAP (MW)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
S America	290.317	315.317	321.172	366.972	374.132	374.152	419.402	426.652	444.242	444.242
Argentina	91.335	91.335	91.350	91.350	91.350 o	91.350 e	91.350 e	91.350	91.350	91.350 e
Bolivia	85.300	85.300	76.000	117.500	122.500	122.500	121.630	121.630	139.920 o	139.920 e
Colombia	0.059 o	0.059 o	0.099 o	0.099 o	0.059 e	0.059 e	5.579 e	5.579 o	5.579 e	5.579 e
Ecuador	4.650 o	4.650 o	4.650 o	4.650 e	4.650 o	4.650 o	4.650 o	4.650	4.650	4.650 e
Falklands Malv	0.340 o	0.340 o	0.340 o	0.340 o	0.340 e	0.340 e	0.340 e	0.340 e	0.340 e	0.340 e
Fr Guiana							3.000 u	3.000 e	3.000 e	3.000 e
Guyana	14.827 e	14.827 e	14.827 e	14.827 e	14.827 e	14.827 e	14.827 e	14.827 e	14.827 e	14.827 e
Paraguay						0.020	0.020	0.020	0.020 e	0.020 e
Peru	41.300	66.300 o	76.300 o	74.400 e	74.400 e	74.400 e	66.000 o	73.250 e	72.550 e	72.550 e
South Georgia	0.006	0.006	0.006	0.006	0.006	0.006 e	0.006 e	0.006 e	0.006 e	0.006 e
Suriname	1.500 o	1.500 o	1.500 o	1.500 o	1.500 o	1.500 o	1.500 o	1.500 o	1.500 e	1.500 e
Uruguay	0.800	0.800	5.900	12.100 o	14.300 o	14.300 o	14.300 e	14.300 o	14.300 o	14.300 e
Venezuela	50.200 e	50.200 e	50.200 e	50.200 e	50.200 e	50.200 e	96.200 e	96.200 e	96.200 e	96.200 e

Other indicators

Autres indicateurs

Otros indicadores

Renewable energy share of electricity capacity

La part d'énergie renouvelable dans la puissance installée

Proporción de energía renovable en la capacidad eléctrica

%	2015	2016	2016	2017	2018	2019	2020	2021	2022	2023	2024
World	29.5	30.9	30.9	32.1	33.2	34.6	36.6	38.4	40.3	43.1	46.4
Africa	19.9	19.9	19.9	20.9	21.4	21.6	22.3	22.6	23.5	24.4	25.4
Algeria	1.7	2.5	2.5	2.9	2.7	2.5	2.3	2.0	2.2	2.2	2.1
Angola	42.6	55.9	55.9	51.1	57.1	59.4	61.6	61.6	63.3	63.4	63.7
Benin	1.9	1.3	1.3	1.4	1.7	1.4	1.7	2.1	10.1	10.6	10.6
Botswana	0.2	0.4	0.4	0.4	0.4	0.6	0.6	0.7	0.7	1.1	1.1
Burkina Faso	10.7	11.0	11.0	19.7	23.0	21.1	21.2	19.2	24.0	34.9	37.8
Burundi	73.0	73.3	73.3	51.7	51.7	51.8	51.8	54.8	60.1	60.3	60.3
Cabo Verde	18.6	18.8	18.8	18.9	21.1	23.5	22.7	23.7	23.2	25.1	26.8
Cameroon	53.9	53.9	53.9	51.7	51.5	54.1	54.1	54.4	54.5	55.5	55.5
Cent Afr Rep	46.3	46.4	46.4	46.5	46.5	46.5	46.6	21.0	21.0	45.2	45.2
Chad	0.8	1.1	1.1	1.2	1.3	1.3	1.5	1.6	1.7	1.7	1.7
Comoros	6.3	9.4	9.4	10.7	10.7	10.8	10.7	18.2	17.2	17.3	17.3
Congo DR	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	97.5	97.6	97.6
Congo Rep	32.7	33.4	33.4	34.6	34.6	34.6	27.5	27.5	27.5	27.5	26.7
Cote d'Ivoire	33.3	31.3	31.3	39.9	39.9	39.5	39.5	38.9	34.7	31.5	31.5
Djibouti	0.2	0.3	0.3	0.3	0.3	0.3	0.3	14.2	14.2	39.5	39.5
Egypt	10.4	9.5	9.5	8.4	8.6	9.7	10.0	10.5	10.5	11.2	12.7
Eq Guinea	36.1	33.8	33.8	31.8	31.8	31.8	31.8	31.7	31.7	31.7	31.7
Eritrea	5.2	5.8	5.8	10.6	11.5	11.5	11.5	11.2	11.1	11.1	11.1
Eswatini	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.7	94.7	94.7	94.7
Ethiopia	94.8	96.4	96.4	97.8	98.1	97.7	97.8	97.9	98.2	98.2	98.5
Gabon	55.2	52.9	52.9	53.5	54.3	54.3	54.3	54.3	54.3	54.3	55.1
Gambia	2.6	3.3	3.3	3.7	1.8	2.1	2.1	1.9	1.8	1.8	14.0
Ghana	50.3	42.7	42.7	35.3	34.8	32.5	31.8	31.4	31.0	31.3	30.2
Guinea	61.1	62.0	62.0	60.3	60.7	62.5	61.6	66.0	66.0	66.0	66.0
Guinea Bissau	0.7	2.4	2.4	3.3	6.1	6.1	5.9	6.8	6.1	6.6	6.6
Kenya	65.3	66.1	66.1	67.6	71.8	72.1	75.4	76.7	79.6	81.9	81.9
Lesotho	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.4	98.8
Liberia	5.2	21.8	21.8	48.9	49.0	49.1	49.4	49.4	49.6	49.7	49.7
Libya	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1
Madagascar	24.2	24.3	24.3	22.4	23.1	23.2	23.3	23.3	28.2	28.7	28.7
Malawi	93.6	91.7	91.7	80.7	76.7	75.0	75.1	78.3	79.7	79.8	79.8
Mali	47.8	43.9	43.9	44.3	44.4	43.8	46.4	48.0	53.8	49.3	51.0
Mauritania	11.3	14.3	14.3	14.3	21.2	20.8	20.8	19.5	19.7	34.0	36.8
Mauritius	21.7	22.7	22.7	21.5	27.1	29.1	29.8	30.0	29.8	31.1	32.1
Mayotte	14.3	11.9	11.9	13.3	13.7	14.5	15.8	23.3	23.3	24.0	24.7
Morocco	28.2	28.9	28.9	28.7	29.8	30.5	33.0	33.1	34.3	36.5	36.9
Mozambique	79.9	79.9	79.9	80.4	77.5	77.8	78.4	78.4	77.5	77.6	77.6
Namibia	61.8	66.9	66.9	69.3	70.8	73.0	73.2	73.2	74.2	73.9	73.9
Niger	2.5	2.5	2.5	2.0	4.0	3.8	4.0	4.0	10.0	15.6	15.6
Nigeria	20.1	17.0	17.0	17.0	16.4	16.5	16.5	16.7	16.9	21.1	20.9
Reunion	45.3	45.5	45.5	45.5	48.2	48.7	49.2	50.2	50.8	51.1	51.1
Rwanda	51.5	49.2	49.2	50.2	50.6	53.5	55.6	55.8	50.3	50.5	46.0
Sao Tome Prn	8.2	7.0	7.0	7.6	7.6	7.4	7.4	7.0	6.4	8.0	8.0
Senegal	8.9	12.5	12.5	16.8	15.8	21.5	27.6	31.0	28.7	28.7	25.3
Seychelles	7.8	7.8	7.8	8.6	9.8	9.3	11.6	17.9	18.3	18.3	18.1
Sierra Leone	55.4	55.5	55.5	56.9	48.4	41.7	42.2	44.1	45.3	45.4	45.4
Somalia	3.6	4.7	4.7	6.0	5.5	5.7	12.6	17.5	30.2	31.8	31.8
South Africa	7.2	9.2	9.2	12.3	14.1	14.2	15.8	15.9	16.8	17.0	17.7
South Sudan	0.1	1.2	1.2	1.1	1.4	1.3	1.9	1.8	2.0	7.7	13.4
Sudan	46.5	46.1	46.1	46.2	47.4	47.7	48.2	48.4	49.2	49.2	49.2
Tanzania	44.1	44.8	44.8	48.1	40.3	40.3	40.2	37.5	35.9	37.7	53.6
Togo	27.9	27.9	27.9	28.1	29.2	30.0	31.0	37.4	37.7	37.8	37.8
Tunisia	6.6	6.5	6.5	6.5	7.3	7.2	6.7	6.7	7.7	11.9	15.1
Uganda	84.8	84.9	84.9	85.5	89.7	91.9	92.1	92.1	92.3	94.1	94.6
Zambia	93.1	83.8	83.8	82.2	82.4	82.9	82.9	84.4	86.3	86.4	86.6
Zimbabwe	42.2	42.3	42.3	42.4	49.7	49.8	49.9	50.3	49.5	39.9	40.3

Renewable energy share of electricity capacity

La part d'énergie renouvelable dans la puissance installée

Proporción de energía renovable en la capacidad eléctrica

%	2015	2016	2016	2017	2018	2019	2020	2021	2022	2023	2024
Asia	27.1	28.6	28.6	30.3	31.6	33.0	35.7	37.7	39.7	43.4	47.5
Afghanistan	56.1	59.6	59.6	61.1	61.1	59.2	59.2	60.2	65.4	65.4	65.4
Bangladesh	3.4	2.9	2.9	3.2	2.6	2.6	2.6	3.3	3.1	3.6	3.8
Bhutan	99.3	99.5	99.5	99.5	99.5	99.7	99.6	99.6	99.6	99.6	99.7
Brunei Darism	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.4	0.4	0.4	0.4
Cambodia	58.6	57.8	57.8	55.9	63.9	61.2	56.5	58.1	52.8	47.9	52.7
China	31.7	33.1	33.1	35.2	36.6	37.7	40.7	42.8	45.1	49.8	54.5
China HK SAR	0.0	0.0	0.0	0.4	0.5	1.4	1.4	1.4	2.3	3.6	3.4
Chinese Taipei	8.2	8.9	8.9	10.0	11.3	13.3	16.0	19.0	22.3	27.5	30.6
India	22.7	24.8	24.8	27.1	28.1	29.0	29.9	31.7	33.8	35.1	38.3
Indonesia	15.7	15.5	15.5	15.2	15.1	14.8	14.4	15.5	15.0	14.6	14.3
Japan	20.7	22.3	22.3	24.3	26.0	28.5	30.2	31.8	33.3	34.9	35.5
Kazakhstan	13.2	12.9	12.9	13.1	13.7	15.6	17.7	18.9	20.7	21.9	22.0
Korea DPR	60.3	61.5	61.5	61.9	59.0	59.1	59.5	59.7	59.7	59.7	59.8
Korea Rep	6.9	8.3	8.3	9.1	10.6	13.5	16.2	17.4	18.8	20.2	21.1
Kyrgyzstan	85.3	85.3	85.3	85.4	85.3	85.3	85.3	75.1	75.1	77.3	77.9
Lao PDR	78.0	74.8	74.8	75.7	77.0	79.4	83.2	84.7	85.6	85.8	86.3
Malaysia	23.1	23.4	23.4	20.4	21.5	21.3	23.5	23.0	23.2	23.3	23.6
Maldives	4.2	4.0	4.0	5.4	3.3	5.5	7.1	7.3	9.2	9.7	11.7
Mongolia	8.0	9.0	9.0	14.5	18.9	19.9	18.9	18.4	18.4	18.6	20.4
Myanmar	64.8	64.8	64.8	58.1	53.8	52.6	44.5	49.5	49.1	49.1	49.3
Nepal	93.8	94.0	94.0	94.8	95.4	95.8	96.2	97.5	97.7	98.1	98.5
Pakistan	31.6	33.5	33.5	29.1	32.8	31.4	31.7	31.4	31.0	30.6	31.7
Philippines	29.4	28.4	28.4	28.3	27.8	26.6	26.8	26.8	26.6	27.3	30.0
Singapore	1.6	2.0	2.0	2.1	2.4	3.5	4.1	5.4	6.9	9.1	11.2
Sri Lanka	47.3	48.5	48.5	49.8	51.6	51.5	53.0	57.6	61.4	59.7	63.2
Tajikistan	92.2	87.3	87.3	87.3	87.4	88.8	88.8	88.8	88.9	88.9	88.9
Thailand	21.2	21.8	21.8	20.7	21.8	22.3	22.1	22.4	21.5	21.4	20.8
Timor Leste	0.5	0.5	0.5	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.2
Turkmenistan	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Uzbekistan	14.2	13.3	13.3	12.9	13.5	12.0	12.2	12.5	13.8	15.5	24.4
Viet Nam	43.7	43.8	43.8	41.7	41.1	47.7	55.8	56.2	56.7	57.6	57.9
C America + Carib	30.5	32.6	32.6	34.1	34.9	35.5	35.7	37.2	38.1	38.7	38.7
Anguilla	4.1	7.7	7.7	7.7	4.7	6.1	6.1	6.1	6.1	6.1	6.1
Antigua Barb	2.8	4.2	4.2	5.1	10.7	9.8	14.6	19.2	19.2	13.1	13.1
Aruba	13.2	13.5	13.5	13.5	15.3	14.8	14.8	14.8	17.2	17.2	16.3
Bahamas	0.6	0.6	0.6	0.5	0.6	0.7	0.7	1.2	1.7	1.7	2.5
Barbados	1.2	5.4	5.4	5.9	6.1	11.2	15.7	19.5	19.2	19.2	19.2
Belize	46.2	46.2	46.2	48.5	48.6	50.1	50.1	50.1	50.1	50.1	39.9
BES Islands	29.7	32.5	32.5	36.0	37.6	39.0	32.5	32.5	32.5	33.9	39.7
Br Virgin Is	2.7	3.0	3.0	2.2	2.2	2.8	3.1	3.5	3.5	5.0	5.0
Cayman Is		1.5	1.5	4.5	5.5	6.1	6.9	7.3	7.1	7.1	6.7
Costa Rica	80.7	83.6	83.6	83.9	84.3	86.9	86.8	88.2	89.2	89.3	85.9
Cuba	8.6	8.1	8.1	9.2	10.1	9.3	11.6	12.0	12.6	12.0	12.2
Curacao	17.7	18.0	18.0	26.1	26.4	22.5	22.8	22.8	22.8	22.9	29.1
Dominica	26.1	27.2	27.2	27.2	26.3	26.3	25.0	25.0	27.6	30.1	30.2
Dominican Rep	18.0	20.9	20.9	22.5	23.1	25.8	26.4	28.3	31.2	33.9	37.4
El Salvador	54.7	56.2	56.2	60.3	62.3	65.9	67.4	68.5	59.7	61.5	61.6
Grenada	2.1	4.2	4.2	4.3	4.8	5.8	6.6	6.3	6.3	6.4	5.5
Guadeloupe	26.2	26.3	26.3	28.0	30.3	32.2	37.2	38.5	39.3	39.5	39.6
Guatemala	58.3	61.7	61.7	65.9	69.5	69.7	69.6	70.6	70.6	70.7	70.7
Haiti	13.2	13.2	13.2	13.3	17.2	17.2	17.2	17.2	16.9	17.0	17.0
Honduras	59.5	59.9	59.9	61.3	61.9	62.8	64.5	64.7	63.7	63.6	59.3
Jamaica	11.0	15.9	15.9	17.8	17.5	18.1	16.4	16.4	16.5	16.6	16.8
Martinique	14.0	14.3	14.3	14.6	21.4	24.4	24.7	25.2	26.1	26.7	27.2
Montserrat						3.5	3.5	12.6	12.6	10.2	8.9
Nicaragua	45.6	47.3	47.3	45.4	45.4	45.1	45.1	45.3	45.8	45.9	46.4
Panama	66.1	62.3	62.3	62.2	58.8	59.7	56.4	65.1	67.6	66.7	67.4
Puerto Rico	7.2	7.8	7.8	8.7	8.8	9.0	9.7	11.3	13.3	17.1	16.6
St Barth		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	3.0
St Kitts Nevis	5.2	5.8	5.8	5.5	5.6	5.6	6.9	6.9	6.6	6.6	7.7
St Lucia	0.9	1.2	1.2	1.2	4.4	4.6	4.7	4.7	4.7	4.8	5.5
St Martin	7.9	3.1	3.1	0.2	0.2	0.9	1.7	1.7	3.2	3.6	3.6
St Vincent Gren	15.1	15.2	15.2	17.0	19.2	22.6	18.2	18.1	17.6	18.3	18.3
Trinidad Tobago	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Turks Caicos	0.0	0.0	0.0	0.2	0.5	1.0	1.0	2.8	3.5	3.7	3.9
US Virgin Is	2.8	2.9	2.9	2.1	3.0	3.0	3.0	3.0	3.0	3.0	8.5
Eurasia	25.9	26.5	26.5	26.9	27.7	28.5	29.9	30.9	31.4	32.5	34.2
Armenia	36.5	36.9	36.9	37.2	37.8	37.9	38.5	37.1	38.5	44.1	45.2
Azerbaijan	14.8	15.0	15.0	15.0	16.3	16.9	17.0	16.5	16.6	20.3	21.4
Georgia	75.2	77.5	77.5	77.2	77.8	78.2	73.8	74.1	74.3	74.8	75.0
Russian Fed	20.0	20.1	20.1	19.7	19.8	20.5	21.0	21.4	21.6	22.4	21.9
Türkiye	43.1	43.9	43.9	45.5	47.7	48.6	51.3	53.3	53.9	55.1	59.3

Renewable energy share of electricity capacity

La part d'énergie renouvelable dans la puissance installée

Proporción de energía renovable en la capacidad eléctrica

%	2015	2016	2016	2017	2018	2019	2020	2021	2022	2023	2024
Europe	41.2	42.9	42.9	44.4	45.4	47.7	49.7	51.6	54.0	56.6	60.2
Albania	94.8	95.1	95.1	95.4	95.6	95.7	96.1	96.3	96.4	96.5	96.6
Andorra	100.0	96.2	96.2	96.8	96.8	96.9	97.0	97.0	97.1	97.2	97.2
Austria	74.7	76.7	76.7	78.6	79.5	80.2	80.3	78.7	82.5	83.7	85.0
Belarus	1.0	2.2	2.2	2.9	3.8	4.1	4.8	4.3	5.5	5.5	4.8
Belgium	30.0	31.2	31.2	33.5	36.4	39.5	43.6	45.0	49.0	54.2	56.7
Bosnia Herzg	43.1	40.8	40.8	40.6	41.6	42.2	42.5	43.5	44.1	45.4	46.6
Bulgaria	37.9	38.6	38.6	39.5	38.1	38.5	39.7	40.4	42.2	47.4	51.2
Croatia	56.9	57.6	57.6	58.7	59.5	65.1	69.8	71.6	72.1	74.0	77.1
Cyprus	13.9	14.3	14.3	15.5	16.1	17.7	21.1	24.5	28.5	33.4	37.4
Czechia	19.3	19.2	19.2	19.2	19.1	19.8	20.6	21.4	22.3	25.1	27.9
Denmark	50.8	52.1	52.1	57.2	59.4	61.3	63.8	67.1	69.2	70.2	75.5
Estonia	20.7	23.6	23.6	24.2	21.6	26.1	30.3	42.0	44.8	51.1	61.3
Faroe Islands	46.4	46.3	46.3	46.3	44.8	40.4	36.0	35.9	43.8	48.3	48.8
Finland	36.8	41.2	41.2	43.5	43.9	44.9	50.0	52.3	60.5	59.2	62.8
France	32.3	33.7	33.7	35.9	37.4	38.7	40.1	41.5	42.5	44.9	47.4
Germany	48.0	50.0	50.0	52.1	51.7	53.7	56.0	56.9	58.4	62.2	64.8
Greece	43.0	44.0	44.0	44.6	45.9	48.2	52.2	56.3	56.4	60.1	65.8
Hungary	12.5	12.0	12.0	13.8	17.5	22.9	28.2	33.7	40.5	47.3	53.3
Iceland	95.8	95.8	95.8	95.9	96.1	96.1	96.1	95.8	95.8	95.9	95.9
Ireland	28.4	31.0	31.0	34.6	36.9	40.8	42.4	42.7	44.1	47.2	49.8
Italy	43.0	44.8	44.8	45.5	46.0	46.6	47.5	48.4	49.4	49.8	52.4
Kosovo*	4.6	8.2	8.2	8.6	8.6	9.7	10.7	10.9	13.0	17.8	17.8
Latvia	60.8	60.7	60.7	61.1	61.4	62.1	62.0	62.0	63.9	67.8	69.2
Lithuania	19.3	20.9	20.9	23.7	25.1	26.0	28.5	34.2	43.0	53.2	63.8
Luxembourg	11.8	17.6	17.6	18.6	18.9	21.7	23.8	26.8	29.2	34.5	38.5
Malta	11.5	16.9	16.9	16.1	18.5	20.9	23.8	25.3	30.0	32.2	32.9
Moldova Rep	2.3	2.3	2.3	2.7	3.5	3.6	3.8	4.9	8.0	12.5	15.5
Montenegro	74.6	74.8	74.8	76.8	76.9	77.9	78.4	78.4	78.4	78.7	79.0
Netherlands	18.2	21.7	21.7	24.1	28.3	34.1	43.4	49.0	52.3	57.2	59.4
North Macedonia	39.9	39.4	39.4	40.3	40.5	40.3	42.8	38.7	40.7	49.6	55.2
Norway	95.7	97.0	97.0	97.0	97.1	97.2	97.6	97.8	98.2	98.3	98.4
Poland	18.5	20.7	20.7	18.6	19.2	21.5	24.6	30.7	39.1	45.6	49.2
Portugal	61.9	64.1	64.1	64.8	65.0	65.5	65.8	70.9	75.9	77.4	79.1
Romania	47.3	47.6	47.6	47.5	47.6	53.7	54.3	59.5	60.2	64.7	67.0
Serbia	33.4	33.7	33.7	33.5	35.3	36.5	36.6	36.8	36.8	38.3	38.8
Slovakia	30.6	31.0	31.0	31.1	30.5	31.5	30.8	32.1	32.6	32.2	36.9
Slovenia	42.3	39.8	39.8	40.9	38.8	39.5	41.0	41.8	44.0	47.8	50.7
Spain	44.7	45.1	45.1	46.2	46.5	49.8	52.9	55.9	60.5	62.5	65.2
Sweden	67.7	69.0	69.0	70.8	70.8	72.8	71.8	75.8	77.4	78.6	79.4
Switzerland	76.6	78.0	78.0	78.8	79.1	79.4	79.8	81.6	82.9	84.1	85.0
UK	32.0	36.3	36.3	38.8	41.3	45.3	46.9	47.9	50.9	53.4	55.2
Ukraine	10.8	10.7	10.7	12.2	14.2	21.7	23.8	25.2	25.2	24.8	35.4
European Union (27)	72.2	73.1	73.1	74.1	74.9	76.1	77.8	79.1	80.9	82.7	84.1
Middle East	5.4	5.5	5.5	5.6	6.0	6.7	7.1	7.6	8.8	10.1	10.8
Bahrain	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.5	0.6	0.7
Iran IR	14.0	14.1	14.1	14.4	14.3	14.3	14.0	13.8	13.8	13.5	13.5
Iraq	7.4	7.2	7.2	6.1	5.9	5.9	5.5	5.3	5.1	4.8	4.7
Israel	4.8	5.5	5.5	6.0	7.8	11.3	13.4	17.1	21.7	25.0	25.3
Jordan	4.6	12.0	12.0	14.7	20.2	24.5	34.3	38.2	38.3	37.3	38.0
Kuwait	0.0	0.1	0.1	0.1	0.2	0.5	0.5	0.5	0.6	0.6	0.6
Lebanon	8.1	8.6	8.6	8.8	9.3	9.8	10.1	14.1	29.6	31.8	31.8
Oman	0.0	0.0	0.0	0.1	0.3	0.7	1.5	1.7	6.1	6.2	6.2
Palestine	7.0	13.5	13.5	18.1	20.1	33.9	42.4	52.7	54.6	90.6	90.8
Qatar	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	7.2	7.2	13.8
Saudi Arabia	0.0	0.0	0.0	0.0	0.1	0.1	0.5	0.5	0.9	3.2	5.0
Syrian AR	16.5	16.0	16.0	15.4	14.9	14.9	14.9	15.1	15.3	15.3	15.3
United Arab Em	0.5	0.5	0.5	1.1	1.9	5.8	6.6	8.3	9.3	13.9	13.3
Yemen	3.8	5.0	5.0	6.4	14.3	13.6	13.6	12.9	13.1	14.3	19.0
N America	24.1	25.5	25.5	26.4	27.2	28.7	30.6	32.3	33.7	35.2	37.3
Canada	67.2	67.4	67.4	67.8	68.3	68.4	68.1	68.4	69.8	70.1	70.8
Greenland	48.8	48.8	48.8	48.8	48.8	48.8	48.9	48.9	49.0	49.1	49.1
Mexico	25.7	26.1	26.1	26.3	24.4	28.9	30.1	31.1	27.3	27.9	28.3
St Pierre Mq											
USA	18.2	19.9	19.9	21.0	22.0	23.5	25.7	27.8	29.7	31.5	34.0

Renewable energy share of electricity capacity

La part d'énergie renouvelable dans la puissance installée

Proporción de energía renovable en la capacidad eléctrica

%	2015	2016	2016	2017	2018	2019	2020	2021	2022	2023	2024
Oceania	29.7	31.6	31.6	34.3	37.9	41.8	44.9	47.4	50.2	53.5	56.0
Amer Samoa	6.6	10.6	10.6	9.7	11.5	10.8	10.8	10.8	13.2	13.2	12.9
Australia	24.0	25.9	25.9	29.1	33.6	38.3	42.2	45.0	48.1	51.8	54.5
Cook Is	17.6	14.1	14.1	14.1	20.8	23.3	23.3	23.3	23.3	23.1	23.1
Fiji	56.5	56.8	56.8	58.5	58.6	55.7	55.8	56.7	56.7	56.8	48.8
Fr Polynesia	26.8	27.4	27.4	28.2	29.0	30.0	30.8	30.4	31.9	32.1	36.1
Guam	6.1	7.4	7.4	6.9	7.3	8.7	9.0	9.3	20.0	20.0	19.3
Kiribati	23.4	27.8	27.8	27.5	29.9	29.5	25.0	25.0	25.0	25.0	25.0
Marshall Is	3.5	5.4	5.4	5.5	5.6	5.6	5.6	5.6	5.8	6.2	7.9
Micronesia	5.9	13.3	13.3	12.3	14.1	14.3	14.3	14.3	14.3	14.3	13.9
Nauru	1.8	5.7	5.7	4.1	4.7	9.3	9.3	10.9	11.8	11.8	11.8
New Caledon	13.1	13.4	13.4	15.0	17.8	21.3	23.1	26.6	25.6	25.9	26.0
New Zealand	76.2	77.6	77.6	77.7	77.8	77.8	77.1	77.7	80.4	80.7	81.8
Niue	14.1	14.1	14.1	14.1	14.1	31.1	31.1	31.1	31.1	31.1	43.5
Palau	3.4	7.1	7.1	7.1	8.4	8.2	8.8	12.6	12.6	39.4	39.7
Papua N Guin	34.8	34.6	34.6	33.5	33.5	33.2	31.8	30.6	30.7	34.5	34.6
Samoa	21.6	28.8	28.8	33.5	35.4	38.4	38.9	39.0	40.8	40.8	40.8
Solomon Is	4.7	6.4	6.4	6.7	6.5	6.3	6.3	6.3	9.2	11.4	11.4
Tokelau	86.6	87.6	87.6	87.6	87.6	87.8	87.8	87.8	87.8	87.8	87.8
Tonga	19.6	22.9	22.9	30.4	31.3	35.3	35.3	31.7	47.3	48.4	46.3
Tuvalu	40.7	53.7	53.7	53.8	53.8	53.8	54.3	54.3	54.3	55.0	59.2
Vanuatu	25.9	28.9	28.9	30.1	36.9	36.1	36.1	36.1	35.7	36.4	37.0
S America	64.8	66.3	66.3	66.4	66.6	67.2	67.5	68.4	70.5	71.6	73.0
Argentina	30.9	30.7	30.7	29.1	29.3	31.2	32.9	34.5	34.7	35.2	35.0
Bolivia	27.8	29.9	29.9	31.7	37.1	37.3	30.5	31.6	41.2	32.8	32.6
Brazil	80.5	81.9	81.9	82.2	83.5	83.3	83.0	83.3	85.0	85.8	86.9
Chile	42.7	41.8	41.8	44.6	47.4	48.3	52.5	54.9	61.1	64.1	66.5
Colombia	69.8	70.0	70.0	70.0	68.8	69.8	69.5	69.6	71.2	69.7	70.4
Ecuador	43.3	56.4	56.4	58.6	60.8	60.8	60.8	60.3	61.1	61.2	60.2
Falklands Malv	30.8	30.8	30.8	30.8	30.8	30.8	19.9	19.9	19.9	19.9	20.0
Fr Guiana	49.7	47.5	47.5	47.5	47.5	47.9	46.3	47.4	47.4	48.2	48.3
Guyana	15.8	15.4	15.4	15.6	16.3	16.6	16.7	14.6	15.8	16.8	17.0
Paraguay	99.8	100.0	100.0	100.0	100.0	99.7	99.7	99.7	99.7	99.7	99.7
Peru	39.7	40.5	40.5	40.9	41.7	42.7	42.8	43.0	42.5	44.9	45.7
South Georgia	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	60.5	60.5
Suriname	31.4	28.4	28.4	28.4	28.5	28.5	28.5	26.9	26.9	27.0	27.2
Uruguay	72.3	83.4	83.4	81.8	75.9	76.1	76.1	76.1	76.2	77.7	77.8
Venezuela	47.4	48.8	48.8	48.6	46.4	47.6	47.6	47.8	47.8	47.5	47.5



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